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1.6 ryanuber-go-glob 1.0.0

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1.7 go-autorest-date 0.3.0

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1.8 go-difflib 1.0.0

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1.9 gogo-googleapis 1.4.1

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1.10 josharian-intern 1.0.0

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1.12 oneofone-xxhash 1.2.8

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1.13 pborman-uuid 1.2.1

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1.15 go-jmespath 0.4.0

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1.16 moby-locker 1.0.1

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1.17 aec 1.0.0

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1.18 docker-go-metrics 0.0.1

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1.19 oklog-ulid 1.3.1

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1.20 dimchansky-utfbom 1.1.1

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1.21 moby-spdystream 0.2.0

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1.22 kylelemons-godebug 1.1.0

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procfs provides functions to retrieve system, kernel and process
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1.28 gofrs-flock 0.8.1

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1.29 go-autorest-tracing 0.6.0

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1.30 hashicorp-go-secure-stdlib-strutil 0.1.2

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1.33 go-logr-stdr 1.2.2

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1.34 backoff 3.2.2

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1.37 glob 0.2.3

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1.39 agnivade-levenshtein 1.1.1

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1.40 reflections 1.0.1

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1.41 go-colorable 0.1.13

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1.42 go-ini-ini 1.67.0

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1.45 go-openapi-swag 0.22.3

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1.46 docker-go 1.5.1-1.0.20160303222718-d30aec9fd63c

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1.47 moby-sys-signal 0.7.0

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1.51 muesli-cancelreader 0.2.2

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1.52 go-autorest-cli 0.4.6

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1.53 alibabacloud-go-alibabacloud-gateway-spi 0.0.4

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1.54 mozillazg-docker-credential-acr-helper 0.3.0

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1.55 alibabacloud-go-endpoint-util 1.1.1

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1.56 alibabacloud-go-cr-20181201 1.0.10

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1.57 kevinburke-ssh_config 1.2.0

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1.58 alibabacloud-go-cr-20160607 1.0.1

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Alibaba Cloud cr SDK for Go

##
- go 1.12.0.

##
`go mod`
```sh
go get github.com/alibabacloud-go/cr-20160607
```

##
[Issue](https://github.com/aliyun/alibabacloud-go-sdk/issues/new)

##
[](https://github.com/aliyun/alibabacloud-go-sdk/blob/master/docs/Usage-CN.md#%E4%BD%BF%E7%94%A8%E7%A4%BA%E4%BE%8B)

##
[](./ChangeLog.txt)

##
* [](https://github.com/aliyun/alibabacloud-go-sdk/)

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Alibaba Cloud cr SDK for Go

Requirements
- It's necessary for you to make sure your system have installed Go environment which version greater than 1.12.0.

Installation
If you use `go mod` to manage your dependence, you can use the following command:

```sh
$ go get github.com/alibabacloud-go/cr-20160607
```

Issues
[Opening an Issue](https://github.com/aliyun/alibabacloud-go-sdk/issues/new), Issues not conforming to the guidelines may be closed immediately.

Usage
[Usage Document](https://github.com/aliyun/alibabacloud-go-sdk/blob/master/docs/Usage-EN.md#demo)

Changelog
Detailed changes for each release are documented in the [release notes](./ChangeLog.txt).

References
* [Latest Release](https://github.com/aliyun/alibabacloud-go-sdk/)

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1.59 hashicorp-go-secure-stdlib-parseutil 0.1.7

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1.62 go-openapi-jsonpointer 0.19.6

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1.63 aws-aws-sdk-go-v2 1.18.2

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```
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package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
```

```
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil
 {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
```

```
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
```

```
(ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
          "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {
```

```
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
            }
          },
          "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
            "traits": {
                "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
            }
        },
        "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
            }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
      "type": "structure",
      "members": {
        "AmiId": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
        },
        "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
        },
        "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

    },
        "AccountID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
```

```
        },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of the instance.</p>"
          }
        },
        "Region": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
          }
        },
        "UsageOperation": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
          }
        },
        "ProductCode": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
          "traits": {
            "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
          }
        },
        "LastUpdatedTime": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
          }
        },
        "SubscriptionName": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
      }
```

```
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
   }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
   "type": "structure",
   "members": {
      "message": {
         "target": "smithy.api#String"
       }
   },
   "traits": {
      "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
      "smithy.api#error": "server"
   }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
   "type": "service",
   "version": "2018-05-10",
   "operations": [
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
      },
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
      },
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
      },
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
      }
   ],

"traits": {
      "aws.api#service": {
         "sdkId": "License Manager Linux Subscriptions",
         "arnNamespace": "license-manager-linux-subscriptions",
         "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
      },
      "aws.auth#sigv4": {
         "name": "license-manager-linux-subscriptions"
      },
      "aws.protocols#restJson1": {},
      "smithy.api#cors": {
```

```
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",

 "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
              "x-amzn-requestid",
              "x-amzn-trace-id"
            ]
          },
          "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
          "smithy.api#title": "AWS License Manager Linux Subscriptions",
          "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
              "Region": {
                "builtIn": "AWS::Region",
                "required": false,
                "documentation": "The
 AWS region used to dispatch the request.",
                "type": "String"
              },
              "UseDualStack": {
                "builtIn": "AWS::UseDualStack",
                "required": true,
                "default": false,
                "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                "type": "Boolean"
              },
              "UseFIPS": {
                "builtIn": "AWS::UseFIPS",
                "required": true,
                "default": false,
```

"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"type": "tree",
"rules": [
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",
"type": "error"
},
{
"conditions": [],
"type": "tree",
"rules": [
{

```
                "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                      "type": "error"
                    },
                    {
                      "conditions": [],

             "endpoint": {
                          "url": {
                            "ref": "Endpoint"
                          },
                          "properties": {},
                          "headers": {}
                        },
                        "type": "endpoint"
                    }
                  ]
                }
              ]
            },
            {
              "conditions": [],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "isSet",

"argv": [
                          {
                            "ref": "Region"
                          }
                        ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
```

```
                    {
                      "conditions": [
                        {
                          "fn": "aws.partition",
                          "argv": [
                            {
                              "ref": "Region"
                            }
                          ],

"assign": "PartitionResult"
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref": "UseFIPS"
                                },
                                true
                              ]
                            },

                    {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref": "UseDualStack"
                                },
                                true
                              ]
                            }
                          ],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [
                                {

                               "fn": "booleanEquals",
                                    "argv": [
                                      true,
                                      {
                                        "fn": "getAttr",
```

```
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]

    }
              ]
            },
            {
              "fn": "booleanEquals",
              "argv": [
                true,
                {
                  "fn": "getAttr",
                  "argv": [
                    {
                      "ref": "PartitionResult"
                    },

                   "supportsDualStack"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "type": "tree",
                "rules": [
                  {

          "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
```

```
                },
                    {
                        "conditions": [],
                        "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {

        "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,

    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",

                "rules": [
                            {
                                "conditions": [],
```

```
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
          },
          {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]

    },
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {

           "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",
```

```
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],

                                "endpoint": {
                                        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },

        {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url":
```

```
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                }
            ]
        },
        {
            "conditions": [],
            "error": "Invalid Configuration: Missing Region",
            "type": "error"
        }
    ]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "UseDualStack": true,
                "UseFIPS": true,
                "Region": "us-gov-east-1"
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {

            "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
            },
            "params": {
                "UseDualStack": false,
                "UseFIPS": true,
                "Region": "us-gov-east-1"
```

```
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "UseDualStack": true,

"UseFIPS": false,
        "Region": "us-gov-east-1"
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseDualStack": false,
        "UseFIPS": false,
        "Region": "us-gov-east-1"
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {

       "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "UseDualStack": true,
        "UseFIPS": true,
        "Region": "cn-north-1"
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
```

```
                "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
              }
            },
            "params": {
              "UseDualStack": false,

              "UseFIPS": true,
              "Region": "cn-north-1"
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "UseDualStack": true,
              "UseFIPS": false,
              "Region": "cn-north-1"
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
            "expect":
{
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
              }
            },
            "params": {
              "UseDualStack": false,
              "UseFIPS": false,
              "Region": "cn-north-1"
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
              "UseDualStack": true,
              "UseFIPS": true,

 "Region": "us-iso-east-1"
              }
```

```
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "UseDualStack": false,
            "UseFIPS": true,
            "Region": "us-iso-east-1"
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but
this partition does not support DualStack"
          },
          "params": {
            "UseDualStack": true,
            "UseFIPS": false,
            "Region": "us-iso-east-1"
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "UseDualStack": false,
            "UseFIPS": false,
            "Region": "us-iso-east-1"
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "UseDualStack": true,
```

```
            "UseFIPS": true,
            "Region": "us-east-1"
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"

         }
          },
          "params": {
            "UseDualStack": false,
            "UseFIPS": true,
            "Region": "us-east-1"
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
          },
          "params": {
            "UseDualStack": true,
            "UseFIPS": false,
            "Region": "us-east-1"
          }
        },
        {

      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "UseDualStack": false,
            "UseFIPS": false,
            "Region": "us-east-1"
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
```

```
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
              },
              "params": {

             "UseDualStack": true,
                "UseFIPS": true,
                "Region": "us-isob-east-1"
              }
            },
            {
              "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "UseDualStack": false,
                "UseFIPS": true,
                "Region": "us-isob-east-1"
              }
            },
            {
              "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
              "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
              },
              "params": {
                "UseDualStack": true,
                "UseFIPS": false,
                "Region": "us-isob-east-1"
              }
            },
            {
              "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "UseDualStack": false,

    "UseFIPS": false,
                "Region": "us-isob-east-1"
              }
            },
```

```
            {
              "documentation": "For custom endpoint with fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "UseDualStack": false,
                "UseFIPS": false,
                "Region": "us-east-1",
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {

            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "UseDualStack": false,
                "UseFIPS": true,
                "Region": "us-east-1",
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "UseDualStack": true,
                "UseFIPS": false,
                "Region": "us-east-1",

"Endpoint": "https://example.com"
              }
            }
          ],
          "version": "1.0"
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
```

```
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled LinuxSubscriptionsDiscovery"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled LinuxSubscriptionsDiscovery"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {

          "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n
    subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n
    more sets of key-value pairs that you specify. For example, you can filter by the name of\n
<code>AmiID</code> with an optional operator to see subscriptions that match, partially\n      match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n          <p>The valid names for this filter are:</p>\n          <ul>\n
      <li>\n              <p>\n                  <code>AmiID</code>\n              </p>\n          </li>\n          <li>\n
<p>\n                  <code>InstanceID</code>\n              </p>\n          </li>\n          <li>\n              <p>\n
<code>AccountID</code>\n              </p>\n          </li>\n          <li>\n              <p>\n
<code>Status</code>\n              </p>\n          </li>\n          <li>\n              <p>\n
<code>Region</code>\n              </p>\n          </li>\n          <li>\n              <p>\n
<code>UsageOperation</code>\n
              </p>\n          </li>\n          <li>\n              <p>\n                  <code>ProductCode</code>\n
</p>\n          </li>\n          <li>\n              <p>\n                  <code>InstanceType</code>\n              </p>\n
```

```
</li>\n        </ul>\n        <p>The valid Operators for this filter are:</p>\n        <ul>\n        <li>\n        <p>\n
        <code>contains</code>\n        </p>\n        </li>\n        <li>\n        <p>\n
<code>equals</code>\n        </p>\n        </li>\n        <li>\n        <p>\n
<code>Notequal</code>\n        </p>\n        </li>\n        </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation":
"<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>",
              "smithy.api#length": {
                "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
        "type": "structure",
        "members": {
          "Instances": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
             "traits": {
              "smithy.api#documentation": "<p>An array that contains instance objects.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                 "items": "Subscriptions"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n <li>\n             <p>\n                 <code>Subscription</code>\n             </p>\n         </li>\n
        </ul>\n         <p>The valid Operators for this filter are:</p>\n         <ul>\n             <li>\n                 <p>\n
  <code>contains</code>\n             </p>\n         </li>\n         <li>\n             <p>\n
```

```
<code>equals</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Notequal</code>\n </p>\n </li>\n </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the
 next set of results.</p>",
              "smithy.api#length": {
                "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
            "traits": {
              "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",

  "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
```

```
      "smithy.api#enum": [
        {
          "name": "EQUAL",
          "value": "Equal",
          "documentation": "Equal operator"
        },
        {
          "name": "NOT_EQUAL",
          "value": "NotEqual",
          "documentation": "Not equal operator"
        },
        {
          "name": "CONTAINS",
          "value": "Contains",
          "documentation": "Contains operator"
        }
      ],
      "smithy.api#length": {
        "min": 1,
         "max": 20
      }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled OrganizationIntegration"
        },
        {
          "name": "Disabled",
          "value": "Disabled",
          "documentation": "Disabled OrganizationIntegration"
        }
      ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
      "target": "smithy.api#String"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
```

```
        "traits": {
          "smithy.api#enum": [
            {
              "name": "InProgress",
              "value": "InProgress",
              "documentation": "InProgress status"
            },
            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
            },
            {
              "name": "Failed",
              "value": "Failed",
              "documentation": "Failed status"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member":
{
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
```

```
            "target": "smithy.api#String"
          },
          "value": {
            "target": "smithy.api#String"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "smithy.api#String",
              "traits": {

  "smithy.api#documentation": "<p>The name of the subscription.</p>"
              }
            },
            "Type": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
              }
            },
            "InstanceCount": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
              "traits": {
                "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
              }
            }
          },
          "traits": {

       "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
          "type": "structure",
          "members": {
            "message": {
              "target": "smithy.api#String"
```

```
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
        "smithy.api#error": "client"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
     },
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/UpdateServiceSettings"
        },

 "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
                "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                "smithy.api#required": {}
            }
        },
        "LinuxSubscriptionsDiscoverySettings": {
```

```
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled,
 and which Regions data will be aggregated from.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowUpdate": {
            "target": "smithy.api#Boolean",
            "traits": {
              "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled
 for Linux subscriptions.</p>"
            }
          },
          "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
            "traits": {
              "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
             "traits": {
              "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings current status.</p>"
```

```
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error":
 "client"
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack);
 err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
```

```
  - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 SigningName:   "license-manager",
 OperationName: "ListLicenses",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
 "<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
              }
            },
            "InstanceId": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The ID of the
```

```
EC2 instance, which provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                 "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
```

```
{
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
           "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
           {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
           },
           {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
           },
           {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
           {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
           },
           {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
           {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
           },
           {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
           }
        ],
        "traits": {
           "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
           "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
           },
           "smithy.api#idempotent": {}
        }
     },
     "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
           "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

 },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
 "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "Domain": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The domain name of the user.</p>"
               }
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
         "type": "structure",
         "members": {
            "InstanceUserSummary": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
               "traits": {
                  "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                  "smithy.api#required": {}
               }
            }
         }
      },

   "com.amazonaws.licensemanagerusersubscriptions#Filter": {
         "type": "structure",
         "members": {
            "Attribute": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
               }
            },
            "Operation": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
               }
            },
            "Value": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>Value of the filter.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
    to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
    specific criteria, such as tags,\n      attributes, or IDs.</p>"
         }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
      "type": "union",
      "members": {
        "ActiveDirectoryIdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
      "type": "structure",
      "members": {
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }
        },
        "Settings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
          "traits": {
            "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
            "smithy.api#required":
{}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
```

```
            "Status": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The status of an identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "FailureMessage": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
         "type": "structure",
         "members": {
            "InstanceId": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
 subscriptions.</p>",
                  "smithy.api#required": {}
               }
            },
            "Status": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The status
  of an EC2 instance resource.</p>",
                  "smithy.api#required": {}
               }
            },
            "Products": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
               "traits": {
                  "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "LastStatusCheckDate": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The date of the last status check.</p>"
              }
            },
            "StatusMessage": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
              }

        }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
              }
            },
            "InstanceId": {
              "target": "smithy.api#String",
              "traits":
    {
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
    subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
              "smithy.api#required": {}
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
              "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          },
          "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
          },
          "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
```

```
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager User Subscriptions",
          "arnNamespace": "license-manager-user-subscriptions",
          "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-user-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
            "content-length",
            "x-api-key",
            "authorization",
            "x-amz-date",
            "x-amz-security-token",
            "Access-Control-Allow-Headers",
            "Access-Control-Allow-Methods",
            "Access-Control-Allow-Origin"
          ],
          "additionalExposedHeaders": [
            "x-amzn-errortype",
            "x-amzn-requestid",
            "x-amzn-trace-id"

]
        },
        "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager User Subscriptions",
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
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            "documentation": "The AWS region used to dispatch the request.",
            "type": "String"
          },
          "UseDualStack": {
            "builtIn": "AWS::UseDualStack",
            "required": true,
            "default": false,
            "documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
            "type": "Boolean"
          },
          "UseFIPS": {
            "builtIn": "AWS::UseFIPS",
            "required": true,
            "default": false,
            "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
            "type": "Boolean"
          },
          "Endpoint": {
            "builtIn": "SDK::Endpoint",
            "required": false,
            "documentation": "Override the endpoint used to send this request",
            "type": "String"
          }

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        "rules": [
          {
            "conditions": [
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                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Endpoint"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
```

```
                    },

                    true
                    ]
                  }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
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              {
                "conditions": [],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseDualStack"

                      },
                          true
                        ]
                      }
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                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                  },
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                    "conditions": [],
                    "endpoint": {
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                        "ref": "Endpoint"
                      },
                      "properties": {},
                      "headers": {}

},
                    "type": "endpoint"
                  }
                ]
              }
            ]
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          {
            "conditions": [],
            "type": "tree",
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            "argv": [
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                "ref": "Region"
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            ]
          }
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        "type": "tree",

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                "argv": [
                  {
                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [

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                    "fn": "booleanEquals",
                    "argv": [
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                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
```

```
        },
                    true
                ]
            }
        ],
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        "rules": [
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                        "argv": [
                            true,
                            {

"fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]
                                }
                            ]
                        },
                        {
                            "fn": "booleanEquals",
                            "argv": [

                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }

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                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
```

```
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

            "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
          },
          {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",

  "type": "error"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]
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        ],

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                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
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                                        "argv": [
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                                                "ref": "PartitionResult"

                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            }
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                        "rules": [
                            {
                                "conditions": [],
                                "type": "tree",
                                "rules": [

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                                    "conditions": [],
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                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                                ]
                            }

                        ]
                        },
                        {
                            "conditions": [],
                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [

    {
                                    "ref": "UseDualStack"
```

```
                },
                true
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                    "argv": [
                        true,

                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
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            ],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},

"headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]
        },
```

```
                                {
                                    "conditions": [],
                                    "error": "DualStack is enabled but this partition does not support DualStack",
                                    "type": "error"
                                }

                        ]
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            }
        ]
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        "conditions": [],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
    }
]
}
]
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"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {

            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
```

```
            "Region": "us-east-1",
            "UseDualStack": true,
            "UseFIPS": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseDualStack": false,
            "UseFIPS":
true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseDualStack": true,
            "UseFIPS": false
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        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
             }
          },
          "params": {
            "Region": "us-east-1",
            "UseDualStack": false,
            "UseFIPS": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
          "expect": {
```

```
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseDualStack": true,
            "UseFIPS": true

        }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseDualStack": false,
            "UseFIPS": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
             }
          },
          "params": {
            "Region": "cn-north-1",
            "UseDualStack": true,
            "UseFIPS": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseDualStack": false,
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```
            "UseFIPS": false

        }
      },
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        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
          }
        },
        "params": {
          "Region": "us-gov-east-1",
          "UseDualStack": true,
          "UseFIPS": true
        }
      },
      {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
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            "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-gov-east-1",
          "UseDualStack": false,
          "UseFIPS": true
        }
      },
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        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
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            "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
          }
        },
        "params": {
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          "UseFIPS": false

}
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      {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
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            "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-gov-east-1",
          "UseDualStack": false,
          "UseFIPS": false
        }
      },
      {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
           }
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseDualStack": false,
          "UseFIPS": true
        }
      },
      {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
          }
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseDualStack": false,
          "UseFIPS": false

}
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
          }
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseDualStack": false,
          "UseFIPS": true
        }
```

```
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseDualStack": false,
        "UseFIPS": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseDualStack": false,
        "UseFIPS": false,
        "Endpoint":
 "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseDualStack": false,
        "UseFIPS": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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```
            },
            "params": {
              "Region": "us-east-1",
              "UseDualStack": false,
              "UseFIPS": true,
              "Endpoint": "https://example.com"
            }
          },
          {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
              "UseDualStack": true,
              "UseFIPS": false,
              "Endpoint": "https://example.com"
            }
          }

        ],
        "version": "1.0"
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
```

```
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize":
"MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
        "type": "structure",
        "members": {

          "IdentityProviderSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
         }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
```

```
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number
 of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
 that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type": "structure",
        "members": {
          "InstanceSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
             "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
             },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the user-based
subscription products available from an identity provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
```

```
            "items": "ProductUserSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },

          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets
 of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation":
"<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target":
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
```

```
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
               "code": 200,
               "method": "POST",
               "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated": {
               "inputToken": "NextToken",
               "outputToken": "NextToken",
               "pageSize":
 "MaxResults",
               "items": "InstanceUserSummaries"
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
         "type": "structure",
         "members": {
            "InstanceId": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "MaxResults":
 {
               "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
               }
            },
            "Filters": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
               "traits": {
                  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
               }
            },
            "NextToken": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse":
{
        "type": "structure",
        "members": {
          "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation":
"<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
```

```
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {

  "smithy.api#documentation": "<p>The status of a product for a user.</p>",
              "smithy.api#required": {}
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          },
          "SubscriptionStartDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The start date of a subscription.</p>"
            }
          },
          "SubscriptionEndDate": {
            "target":
"smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The end date of a subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
```

```
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
     },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
       }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
      "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/identity-provider/RegisterIdentityProvider"
      },
      "smithy.api#idempotent": {}
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
      "IdentityProvider": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
        "traits": {
          "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
          "smithy.api#required": {}
        }
```

```
            },
            "Product":
{
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",

          "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",
        "traits": {
```

```
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },

           "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n
endpoints. The security group should permit inbound TCP port 1688 communication from resources\n
  in the VPC.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
  monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/user/StartProductSubscription"
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
      "type": "structure",
```

```
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An
 object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
             "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
 operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
             {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri":
 "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "Product": {
               "target": "smithy.api#String",
                "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
               }
            },
            "Domain": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The domain name of the user.</p>"
               }
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
         "type": "structure",
         "members": {
            "ProductUserSummary": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
               "traits": {
                  "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                  "smithy.api#required": {}
                }
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
         "type": "list",
         "member": {
            "target": "smithy.api#String"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
         "type": "string",
         "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
```

```
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation":
"<p>The request was denied because of request throttling. Retry the request.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/UpdateIdentityProviderSettings"
          },
```

```
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#required": {}

     }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
        <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n
            <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
```

```
            "AddSubnets": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
               "traits": {
                  "smithy.api#documentation":
 "<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n
require connectivity to activation servers.</p>",
                  "smithy.api#required": {}
               }
            },
            "RemoveSubnets": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
               "traits": {
                  "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                  "smithy.api#required": {}
               }
            },
            "SecurityGroupId": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
               "traits": {
                  "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoints for activation servers.</p>"

               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
         "type": "structure",
         "members": {
            "message": {
               "target": "smithy.api#String"
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
         }
      }
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string
```

```
// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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                 "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
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                "endpointPrefix": "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
```

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    "smithy.api#title": "AWS License Manager",
    "smithy.api#xmlNamespace": {
      "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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    "smithy.rules#endpointRuleSet": {
      "version": "1.0",
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          "required": false,
          "documentation": "The AWS region used to dispatch the request.",
          "type": "String"
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          "builtIn": "AWS::UseDualStack",
          "required": true,
          "default": false,
          "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
          "type": "Boolean"
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          "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
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```

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```

```
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```

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                    },
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
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```

```
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},
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                  "expect": {
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```

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  "expect": {
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      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-3"
      }
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        }
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      "params": {
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        "UseDualStack":
false,
        "Region": "ap-south-1"
      }
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        "UseDualStack": false,
        "Region": "ap-southeast-1"
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    {
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                "params": {
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                  "UseDualStack": false,
                  "Region": "ap-southeast-2"
                }
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              {
                "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
                "expect": {
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                    "url": "https://license-manager.ap-southeast-3.amazonaws.com"
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                "params": {
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                  "UseDualStack": false,
                  "Region":
"ap-southeast-3"
                }
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                "expect": {
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                    "url": "https://license-manager.ca-central-1.amazonaws.com"
                  }
                },
                "params": {
                  "UseFIPS": false,
                  "UseDualStack": false,
                  "Region": "ca-central-1"
                }
              },
              {
                "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.eu-central-1.amazonaws.com"
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                },
                "params": {
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                "UseFIPS": false,
                "UseDualStack": false,
                "Region": "eu-central-1"
            }
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-north-1.amazonaws.com"
                }
            },
            "params": {
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                "UseDualStack": false,
                "Region": "eu-north-1"
            }

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            "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
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            "params": {
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                "UseDualStack": false,
                "Region": "eu-south-1"
            }
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            "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.eu-west-1.amazonaws.com"

}
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Region": "eu-west-1"
            }
        },
        {
            "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
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      "expect": {
        "endpoint": {
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      "params": {
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        "UseDualStack": false,
        "Region": "eu-west-2"
      }
    },
    {
      "documentation": "For
region eu-west-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-3"
      }
    },
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      "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.me-south-1.amazonaws.com"
        }
      },
      "params": {

    "UseFIPS": false,
        "UseDualStack": false,
        "Region": "me-south-1"
      }
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    {
      "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.sa-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
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            "UseDualStack": false,
            "Region": "sa-east-1"
          }
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        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",

      "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-east-1"
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "UseFIPS": true,
            "UseDualStack":
false,
            "Region": "us-east-1"
          }
        },
        {
          "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-2.amazonaws.com"
            }
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          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-east-2"
          }
        },
        {
          "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
          "expect": {
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            "endpoint": {

        "url": "https://license-manager-fips.us-east-2.amazonaws.com"
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            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "us-east-2"
          }
        },
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          "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-west-1.amazonaws.com"
            }
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          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-west-1"

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          "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
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          "params": {
            "UseFIPS": true,
            "UseDualStack": false,
            "Region": "us-west-1"
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          "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
          "expect": {
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              "url": "https://license-manager.us-west-2.amazonaws.com"

        }
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            "UseDualStack": false,
            "Region": "us-west-2"
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            "endpoint": {
              "url": "https://license-manager-fips.us-east-1.api.aws"
            }
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          "params": {
            "UseFIPS": true,
            "UseDualStack": true,
            "Region": "us-east-1"
          }
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          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
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            }
          },
          "params": {

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            "UseDualStack": true,
            "Region": "us-east-1"
          }
        },
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          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
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      "endpoint": {
        "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
      }
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      "UseDualStack": false,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",

   "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
      }
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      "Region": "cn-northwest-1"
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    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
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        }
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      "UseDualStack": true,
      "Region": "cn-north-1"
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    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,

      "Region": "us-gov-east-1"
    }
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  {
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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      "endpoint": {
        "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
      }
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    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-gov-east-1"
    }
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    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
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    "params": {
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      "UseDualStack": false,
      "Region": "us-gov-west-1"
    }
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        "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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      "UseDualStack": false,
      "Region": "us-gov-west-1"
    }
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    "expect": {
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      "UseDualStack": true,
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    }
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    "expect": {
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      }
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    "params": {
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      "UseDualStack": true,
      "Region": "us-gov-east-1"
    }
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          "expect": {
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            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "us-iso-east-1"
          }
        },

        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "UseFIPS": true,
            "UseDualStack": true,
            "Region": "us-iso-east-1"
          }
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        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
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              "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
            }
          },

"params": {
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            "UseDualStack": false,
            "Region": "us-iso-east-1"
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": true,
            "Region": "us-iso-east-1"
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```
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       }
    },
    "params": {
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    }
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    "expect": {
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    },
    "params": {
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       "UseDualStack": true,
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     }
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  {
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    "expect": {
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       }
    },
    "params": {
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       "UseDualStack": false,
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    }
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  {
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    "expect": {
       "error": "DualStack is enabled but this partition does not support DualStack"
     },
    "params": {
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       "UseDualStack": true,
       "Region": "us-isob-east-1"
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```
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      "expect": {
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        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-east-1",
        "Endpoint": "https://example.com"
      }
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  {
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disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
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      "params": {
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        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
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      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
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      },
      "params": {

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        "UseDualStack": false,
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        "Endpoint": "https://example.com"
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      "expect": {
        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
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                },
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                  "UseDualStack": true,
                  "Region": "us-east-1",
                  "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "Missing region",

               "expect": {
                  "error": "Invalid Configuration: Missing Region"
                }
              }
            ],
            "version": "1.0"
          }
        }
      },
      "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#AcceptGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },

{
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
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          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
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            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#AcceptGrantRequest": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",

"smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#AcceptGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"

        }
              }
            },
            "traits": {
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            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
            "DISTRIBUTED_GRANTS_ONLY": {
                "target": "smithy.api#Unit",

"traits": {
                    "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
                }
            },
            "ALL_GRANTS_PERMITTED_BY_ISSUER": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {
        "type": "enum",
        "members": {
            "CREATE_GRANT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateGrant"
                }
            },
            "CHECKOUT_LICENSE": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutLicense"
            }
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          "CHECKOUT_BORROW_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",

           "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 7
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            }
          }
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        "com.amazonaws.licensemanager#Arn": {
          "type": "string",
          "traits": {
            "smithy.api#length": {
              "min": 0,
              "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
          }
        },
        "com.amazonaws.licensemanager#ArnList":
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          "member": {
            "target": "com.amazonaws.licensemanager#Arn"
          }
        },
        "com.amazonaws.licensemanager#AuthorizationException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "AuthorizationFailure",
              "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to
perform the action. Check the IAM\n          policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
          }
        },
        "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
          "type":
 "structure",
          "members": {
            "LastRunTime": {
              "target": "com.amazonaws.licensemanager#DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
              }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },
    "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are
allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input":
```

```
{
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {

              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckInLicenseResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CheckoutBorrowLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
             },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
         }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                  "smithy.api#required": {}
               }
            },
            "Entitlements": {
               "target": "com.amazonaws.licensemanager#EntitlementDataList",
               "traits":
{
                  "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                  "smithy.api#required": {}
               }
            },
            "DigitalSignatureMethod": {
               "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
               "traits": {
                  "smithy.api#documentation": "<p>Digital signature method. The possible value is JSON Web
Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                  "smithy.api#required": {}
               }
            },
            "NodeId": {
               "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }

      },
        "CheckoutMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about constraints.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
        },
        "EntitlementsAllowed": {
          "target": "com.amazonaws.licensemanager#EntitlementDataList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
          }
        },
        "NodeId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken":
{
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
              }
            },
            "CheckoutMetadata": {
              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation":
"<p>Information about constraints.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicense": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
             },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n           <p>If the
account that created the license
 is the same that is performing the check out, you must\n           specify the account as the beneficiary.</p>\n
</note>"
         }
      },
      "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
         "type": "structure",
         "members": {
            "ProductSKU": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product SKU.</p>",
                  "smithy.api#required": {}
               }
            },
            "CheckoutType": {
               "target": "com.amazonaws.licensemanager#CheckoutType",
               "traits": {
                  "smithy.api#documentation": "<p>Checkout type.</p>",
                  "smithy.api#required": {}
```

```
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",

            "traits": {
              "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
        "type": "structure",
        "members": {
          "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Checkout type.</p>"
          }
        },
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
        },
        "EntitlementsAllowed": {
          "target": "com.amazonaws.licensemanager#EntitlementDataList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
          }
        },
        "SignedToken": {
          "target": "com.amazonaws.licensemanager#SignedToken",
          "traits": {
            "smithy.api#documentation": "<p>Signed token.</p>"
          }
        },
        "NodeId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Node ID.</p>"
          }
        },
        "IssuedAt": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
          }
        },
        "Expiration": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
          }
        },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
```

```
        }
      },
      "com.amazonaws.licensemanager#CheckoutType":
{
        "type": "enum",
        "members": {
          "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
      },
      "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
           "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
```

```
            "code": "ConflictException",
            "httpResponseCode": 409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {

  "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
          },
          "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
            }
        },
        "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
    }
},
"com.amazonaws.licensemanager#CreateGrant":
{
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
         },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
```

```
        "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateGrantRequest": {
      "type": "structure",
      "members": {
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        },
        "GrantName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant name.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Principals": {
          "target": "com.amazonaws.licensemanager#PrincipalArnList",
          "traits": {
            "smithy.api#documentation":
 "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN):</p>\n        <ul>\n        <li>\n        <p>An Amazon Web Services account, which includes only the account specified.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n        <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n        <p>An organization, which will include all accounts across your organization.</p>\n        </li>\n        </ul>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the grant.</p>",
```

```
                "smithy.api#required": {}

            }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation":
"<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersion": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
      },
```

```
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
         }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

                "smithy.api#documentation": "<p>Grant name.</p>"
            }
        },
        "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
            }
        },
        "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
                "smithy.api#documentation": "<p>Grant status reason.</p>"
            }
        },
        "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
        },
        "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateGrantVersionResponse": {
    "type": "structure",
    "members": {
        "GrantArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
             "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"

      },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
```

```
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n          <p>A license configuration is an abstraction of a customer license agreement that can be\n          consumed and enforced by License Manager. Components include specifications for the license\n          type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n          Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n          license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
    },
```

```
"com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
  "type": "structure",
  "members": {
    "Name": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>",
        "smithy.api#required": {}
      }
    },
    "Description": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
      }
    },
    "LicenseCountingType": {
      "target": "com.amazonaws.licensemanager#LicenseCountingType",
      "traits": {
        "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
        "smithy.api#required": {}
      }
    },
    "LicenseCount": {
      "target": "com.amazonaws.licensemanager#BoxLong",
      "traits": {
        "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"

      }
    },
    "LicenseCountHardLimit": {
      "target": "com.amazonaws.licensemanager#BoxBoolean",
      "traits": {
        "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
      }
    },
    "LicenseRules": {
      "target": "com.amazonaws.licensemanager#StringList",
      "traits": {
        "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n
          </p>\n          </li>\n          <li>\n            <p>\n              <code>Instances</code> dimension:
<code>allowedTenancy</code> | \n            <code>maximumCores</code> | <code>minimumCores</code> |\n
      <code>maximumSockets</code> | <code>minimumSockets</code> |\n
```

```
<code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n          <li>\n
    <p>\n              <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n              <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n              <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n
    </li>\n        </ul>\n        <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180.
The possible \n        values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-
DedicatedHost</code>, and \n        <code>EC2-DedicatedInstance</code>. The possible values for
<code>honorVcpuOptimization</code> are \n        <code>True</code> and <code>False</code>.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
              "traits": {
                "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
              }
            },
            "DisassociateWhenNotFound": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
               }
            },
            "ProductInformationList": {
              "target": "com.amazonaws.licensemanager#ProductInformationList",
              "traits": {
                "smithy.api#documentation": "<p>Product information.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
              }
            }
          },
          "traits": {
```

```
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceLicenseContext": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation":
 "<p>Information that identifies the license type you are converting from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
              "smithy.api#required": {}
            }
          },
          "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",

              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
         "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
```

```
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a report generator.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The
 following report types an be generated:</p>\n        <ul>\n        <li>\n        <p>License configuration report -
Reports the number and details of consumed licenses for a license configuration.</p>\n        </li>\n        <li>\n
        <p>Resource report - Reports the tracked licenses and resource consumption for a license
configuration.</p>\n        </li>\n        </ul>",
```

```
                "smithy.api#required": {}
              }
            },
            "ReportContext": {
              "target": "com.amazonaws.licensemanager#ReportContext",
              "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
                "smithy.api#required": {}
              }
            },
            "ReportFrequency": {
              "target": "com.amazonaws.licensemanager#ReportFrequency",

    "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientRequestToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
```

```
            "LicenseManagerReportGeneratorArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CreateLicenseRequest": {
         "type": "structure",
         "members": {

 "LicenseName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License name.</p>",
                  "smithy.api#required": {}
               }
            },
            "ProductName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product name.</p>",
                  "smithy.api#required": {}
               }
            },
            "ProductSKU": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product SKU.</p>",
                  "smithy.api#required": {}
               }
            },
            "Issuer": {
               "target": "com.amazonaws.licensemanager#Issuer",

  "traits": {
                  "smithy.api#documentation": "<p>License issuer.</p>",
                  "smithy.api#required": {}
               }
            },
            "HomeRegion": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
```

```
                "smithy.api#documentation": "<p>Home Region for the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits":
{
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}

    }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
```

```
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersion": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
       },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"

         },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
         }
      },
      "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                  "smithy.api#required": {}
               }
            },
            "LicenseName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License name.</p>",
                  "smithy.api#required":
{}
               }
            },
            "ProductName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product name.</p>",
                  "smithy.api#required": {}
```

```
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
              "smithy.api#documentation": "<p>License issuer.</p>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Validity": {

        "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
              "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
              "smithy.api#required": {}
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license.</p>"
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>",
              "smithy.api#required": {}
            }
          },
          "ConsumptionConfiguration": {
            "target":
 "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
              "smithy.api#required": {}
            }
          },
```

```
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",

        "traits": {
            "smithy.api#documentation": "<p>New version of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {

             "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n         <p>A refresh token is a JWT
token used to get
 an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that
you can use to \n          call License Manager to manage the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
```

```
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n          JWT token.</p>",
              "smithy.api#required": {}
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. \n
      License Manager does not check whether the roles are in use.</p>"
            }
          },
          "ExpirationInDays": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
              "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation":
 "<p>Idempotency token, valid for 10 minutes.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
```

```
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {

            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"

}
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
        }
```

```
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Deletes the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusReason":
```

```
{
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
             }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
```

```
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
    },
    "errors": [

  {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {

      "smithy.api#documentation": "<p>Deletes the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
```

```
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },

  {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n         <p>You cannot
delete a license configuration that is in use.</p>"
         }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
         "type": "structure",
         "members": {
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {

  "type": "structure",
         "members": {},
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
         },
         "output": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {

  "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }

        },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
```

```
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {

                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
```

```
 "traits": {
                "smithy.api#documentation": "<p>Token ID.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#DeleteTokenResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#DigitalSignatureMethod": {
    "type": "enum",
    "members": {
        "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "JWT_PS384"
            }
        }
    }
},
"com.amazonaws.licensemanager#Entitlement": {
    "type": "structure",
    "members": {
        "Name": {

  "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only if the unit is None.</p>"
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
        },
        "Overage": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation":
"<p>Indicates whether overages are allowed.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement unit.</p>",
                "smithy.api#required": {}
            }
        },
        "AllowCheckIn": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
      }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
      "type": "structure",
      "members": {
        "Name":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement data name.</p>",
                "smithy.api#required": {}
            }
        },
        "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement data value.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"

}
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {

           "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
```

```
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bytes"
          }
        },
        "KILOBYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes"
          }
        },
        "MEGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes"

}
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
```

```
            "traits": {

  "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
          },
          "KILOBYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes/Second"
            }
          },
          "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes/Second"
            }
          },
          "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes/Second"
            }
          },
```

```
            "TERABYTES_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue":
"Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
                }
            },
            "TERABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabits/Second"
                }
            },

        "COUNT_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Count/Second"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#EntitlementList": {
        "type": "list",
```

```
      "member": {
        "target": "com.amazonaws.licensemanager#Entitlement"
      }
    },
    "com.amazonaws.licensemanager#EntitlementNotAllowedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {

"type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bytes"
          }
        },
        "KILOBYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes"
          }
        },
        "MEGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes"
          }
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target":
"smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },

    "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"
            }
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {

       "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
```

```
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }

    },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },
        "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
          }
        },
        "COUNT_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count/Second"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
```

```
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Entitlement usage name.</p>",
          "smithy.api#required": {}
        }
      },
      "ConsumedValue": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Resource usage consumed.</p>",
          "smithy.api#required": {}
        }
      },
      "MaxCount": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
        }
      },
      "Unit": {
        "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
        "traits": {
          "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
    }
  },
  "com.amazonaws.licensemanager#EntitlementUsageList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#EntitlementUsage"
    }
  },
  "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
    },
```

```
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Extends the expiration date for license
consumption.</p>"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>",
            "smithy.api#required": {}
          }
        },
        "DryRun": {
          "target": "com.amazonaws.licensemanager#Boolean",
          "traits": {
            "smithy.api#default": false,
            "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
          }
        }
      },
```

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
    "type": "structure",
    "members": {
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
        },
        "smithy.api#documentation": "<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
    }
},
"com.amazonaws.licensemanager#Filter": {
    "type": "structure",
    "members": {
        "Name": {
```

```
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
          },
          "Values": {
            "target": "com.amazonaws.licensemanager#FilterValues",
            "traits": {
              "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results from a\n        describe operation. Filters can be used to match a set of resources by specific criteria,\n        such as tags, attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits":
{
          "aws.protocols#awsQueryError": {
            "code": "FilterLimitExceeded",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Filter"
        }
      },
      "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
```

```
    },
    "com.amazonaws.licensemanager#FilterValues": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {

  "smithy.api#xmlName": "item"
        }
      }
    },
    "com.amazonaws.licensemanager#Filters": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
          "smithy.api#xmlName": "item"
        }
      }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets a temporary access token to use with
```

```
AssumeRoleWithWebIdentity. Access tokens\n          are valid for one hour.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
          "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
              "smithy.api#required": {}
            }
          },
           "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
              "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenResponse": {
        "type": "structure",
        "members": {
          "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",

       "input": {
          "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
```

```
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },

 {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
         "smithy.api#input": {}
    }
```

```
  },
  "com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
      "Grant": {
        "target": "com.amazonaws.licensemanager#Grant",
        "traits": {
          "smithy.api#documentation": "<p>Grant details.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },

{
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
  },
```

```
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
      },

      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConfigurationRequest":
{
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
```

```
    "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
      "type": "structure",
      "members": {
        "LicenseConfigurationId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
          }
        },
        "LicenseConfigurationArn":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
          }
        },
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>"
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
          "traits": {
            "smithy.api#documentation":
"<p>Dimension for which the licenses are counted.</p>"
          }
        },
        "LicenseRules": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>License rules.</p>"
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of available licenses.</p>"
          }
        },
        "LicenseCountHardLimit": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
            }
          },
          "ConsumedLicenses": {
            "target":
"com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License configuration status.</p>"
            }
          },
          "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
            }
          },
          "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Summaries
of the licenses consumed by resources.</p>"
            }
          },
          "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
```

```
            },
            "AutomatedDiscoveryInformation":
 {
                "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
                "traits": {
                    "smithy.api#documentation": "<p>Automated discovery information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
      "type": "structure",
      "members": {
        "LicenseConversionTaskId": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
      "type": "structure",
      "members": {
        "LicenseConversionTaskId": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
          }
        },
        "SourceLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
          }
        },
        "DestinationLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanager#String",
```

```
    "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
        },
        "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
        },
        "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Amount of time to complete the license type
 conversion.</p>"
            }
        },
        "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
```

```
{
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"

        }
      },
      "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
          "ReportGenerator": {
            "target": "com.amazonaws.licensemanager#ReportGenerator",
            "traits": {
```

```
                "smithy.api#documentation": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },

     "com.amazonaws.licensemanager#GetLicenseResponse": {
        "type": "structure",
        "members": {
          "License": {
            "target": "com.amazonaws.licensemanager#License",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsage": {
        "type": "operation",
        "input": {
```

```
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
```

```
        "LicenseUsage": {
            "target": "com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
                "smithy.api#documentation": "<p>License usage details.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
    },
     "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#GetServiceSettingsRequest": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#input": {}
     }
},
"com.amazonaws.licensemanager#GetServiceSettingsResponse": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
            }
          },
          "SnsTopicArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
            }
          },
          "OrganizationConfiguration": {
            "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
            "traits": {
              "smithy.api#documentation":
 "<p>Indicates whether Organizations is integrated with License Manager for\n         cross-account discovery.</p>"
            }
          },
          "EnableCrossAccountsDiscovery": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
            }
          },
          "LicenseManagerResourceShareArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },

    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
```

```
        },
        "GrantName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant name.</p>",
            "smithy.api#required": {}
          }
        },
        "ParentArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Parent ARN.</p>",
            "smithy.api#required": {}
          }

      },
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "GranteePrincipalArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The grantee principal ARN.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "GrantStatus": {
          "target":
"com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Grant status reason.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation":
"<p>Granted operations.</p>",
                "smithy.api#required": {}
              }
            },
            "Options": {
              "target": "com.amazonaws.licensemanager#Options",
              "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes a grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#GrantList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Grant"
          }
        },
        "com.amazonaws.licensemanager#GrantStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
              "traits": {
```

```
                "smithy.api#enumValue": "PENDING_ACCEPT"
              }
            },
            "REJECTED": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "REJECTED"
              }
            },
            "ACTIVE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "ACTIVE"
              }
            },
            "FAILED_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "FAILED_WORKFLOW"
              }
            },
            "DELETED": {
              "target":
"smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "DELETED"
              }
            },
            "PENDING_DELETE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
              }
            },
            "DISABLED": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "DISABLED"
              }
            },
            "WORKFLOW_COMPLETED": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "WORKFLOW_COMPLETED"
              }
            }
          }
        },
```

```
    "com.amazonaws.licensemanager#GrantedLicense": {
      "type": "structure",
      "members": {
        "LicenseArn": {

    "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer":
{
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
```

```
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the
granted license is valid, in ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {

 "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
      },
      "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
      },
      "com.amazonaws.licensemanager#ISO8601DateTime": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
      },
      "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
      },
      "com.amazonaws.licensemanager#InvalidParameterValueException":
{
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidParameterValueProvided",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>One or more parameter values are not valid.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
```

```
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {

        "code": "InvalidResourceState",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Condition": {
                "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
                 "traits": {
                    "smithy.api#documentation": "<p>Condition of the filter.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
```

```
            "EQUALS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "EQUALS"
              }
            },
            "NOT_EQUALS": {
              "target": "smithy.api#Unit",
               "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
              }
            },
            "BEGINS_WITH": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
              }
            },
            "CONTAINS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "CONTAINS"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#InventoryFilterList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
          }
        },
        "com.amazonaws.licensemanager#Issuer": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#String",
               "traits": {
                "smithy.api#documentation": "<p>Issuer name.</p>",
                "smithy.api#required": {}
              }
            },
            "SignKey": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n          and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
{
              "smithy.api#documentation": "<p>Issuer name.</p>"
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#License": {

       "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>License name.</p>"
            }
        },
        "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Product name.</p>"
            }
        },
        "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation":
"<p>Product SKU.</p>"
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
                "smithy.api#documentation": "<p>License issuer.</p>"
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {

      "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
            }
```

```
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>"
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
          }

},
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>License metadata.</p>"
          }
        },
        "CreateTime": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>License creation time.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration":
{
      "type": "structure",
      "members": {
        "LicenseConfigurationId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
          }
        },
        "LicenseConfigurationArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
              "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
          },
          "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>License rules.</p>"
            }
          },
          "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses managed by the license
 configuration.</p>"
            }
          },
          "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
 uninstalled.</p>"
            }
```

```
        },
        "ConsumedLicenses": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
          }
        },
        "Status": {

"target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
          }
        },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"
          }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits":
{
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {
          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license
```

agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n

type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "

}

},

"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {

"type": "structure",

"members": {

"ResourceArn": {

"target": "com.amazonaws.licensemanager#String",

"traits": {

"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "

}

},

"ResourceType": {

"target": "com.amazonaws.licensemanager#ResourceType",

"traits": {

"smithy.api#documentation": " Type of server resource. "

}

},

"ResourceOwnerId": {

"target": "com.amazonaws.licensemanager#String",

"traits": {

"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "

}

},

"AssociationTime": {

"target": "com.amazonaws.licensemanager#DateTime",

"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "

}

},

"AmiAssociationScope": {

"target": "com.amazonaws.licensemanager#String",

"traits": {

"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "

}

}

},

"traits": {

```
"smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members": {
            "AVAILABLE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "AVAILABLE"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsage": {

        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the resource.</p>"
                }
            },
```

```
            "ResourceOwnerId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {

                  "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
               }
            },
            "AssociationTime": {
               "target": "com.amazonaws.licensemanager#DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
               }
            },
            "ConsumedLicenses": {
               "target": "com.amazonaws.licensemanager#BoxLong",
               "traits": {
                  "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsageList":
{
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurations": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionContext": {
         "type": "structure",
         "members": {
            "UsageOperation": {
               "target": "com.amazonaws.licensemanager#UsageOperation",
               "traits": {
                  "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
```

```
fields.html#billing-info\">Sample
 data: usage operation by platform\n      </a>\n         </p>"
                }
              }
            },
            "traits": {
              "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
            }
          },
          "com.amazonaws.licensemanager#LicenseConversionTask": {
            "type": "structure",
            "members": {
              "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                  "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
                }
              },
              "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                  "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n
     conversion task.</p>"
                }
              },
              "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
                }
              },
              "DestinationLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
                }
              },
              "Status": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
                "traits": {
                  "smithy.api#documentation": "<p>The status of the conversion task.</p>"

       }
              },
              "StatusMessage": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
             "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
```

```
},
      "SUCCEEDED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "SUCCEEDED"
        }
      },
      "FAILED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "FAILED"
        }
      }
    }
},
"com.amazonaws.licensemanager#LicenseConversionTasks": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#LicenseConversionTask"
    }
},
"com.amazonaws.licensemanager#LicenseCountingType": {
    "type": "enum",
    "members": {
      "VCPU": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "vCPU"
        }
      },

  "INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Instance"
        }
      },
      "CORE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Core"
        }
      },
      "SOCKET": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "Socket"
        }
```

```
            }
          }
        },
        "com.amazonaws.licensemanager#LicenseDeletionStatus": {
          "type": "enum",
          "members": {
            "PENDING_DELETE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
              }
            },
            "DELETED":
{
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "DELETED"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#LicenseList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#License"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailure": {
          "type": "structure",
          "members": {
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
              }
            },
            "ResourceType": {
              "target": "com.amazonaws.licensemanager#ResourceType",
              "traits": {
                "smithy.api#documentation":
"<p>Resource type.</p>"
              }
            },
            "ErrorMessage": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
              }
```

```
            },
            "FailureTime": {
              "target": "com.amazonaws.licensemanager#DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Failure time.</p>"
              }
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation":
"<p>ID of the Amazon Web Services account that owns the resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {
              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target":
"com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration
 with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
             }
          },
          "SUSPENDED": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
            }
          },
          "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "EXPIRED"
            }
          },
          "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseUsage": {
        "type":
"structure",
        "members": {
          "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
              "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
```

```
            "aws.protocols#awsQueryError": {
               "code": "LicenseUsageFailure",
               "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have
 enough licenses available to support a new resource launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {

              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the specified license
 configuration.</p>\n         <p>Resource associations need not consume licenses from a license configuration. \n
 For example, an AMI or a stopped instance might not consume a license (depending on \n         the license
 rules).</p>"
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
         "type": "structure",
```

```
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
```

```
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
```

```
</li>\n <li>\n <p>\n <code>GrantStatus</code>\n </p>\n </li>\n
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n <li>\n
<p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n <p>\n
<code>LicenseIssuerName</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation":
"<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Distributed grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },

    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

}
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse": {
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
```

```
    {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults":
{
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible
 values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n
Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
            <p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
```

<code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n \n "

```
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
         }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {

   "type": "structure",
         "members": {
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            },
            "MaxResults": {
               "target": "com.amazonaws.licensemanager#BoxInteger",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
               }
            },
            "Filters": {
               "target": "com.amazonaws.licensemanager#Filters",
               "traits": {
                  "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
               }
            }
         },
         "traits": {
             "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
         "type": "structure",
         "members": {
            "LicenseConversionTasks": {
               "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
               "traits": {
                  "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
```

```
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
    "type": "operation",
     "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
```

```
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest": {
          "type": "structure",
          "members": {
            "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n          <li>\n            <p>\n              <code>LicenseConfigurationArn</code>\n
</p>\n
        </li>\n        </ul>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#MaxSize100",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
          "type": "structure",
          "members": {
            "ReportGenerators": {
              "target": "com.amazonaws.licensemanager#ReportGeneratorList",
               "traits": {
                "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
```

```
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse":
{
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
         }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsRequest":
{
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                  "smithy.api#required": {}
               }
            },
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            },
            "MaxResults": {
               "target": "com.amazonaws.licensemanager#MaxSize100",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
               }
            }
         },
         "traits":
{
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
```

```
    "type": "structure",
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#LicenseList",
        "traits": {
          "smithy.api#documentation": "<p>License details.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListLicenses": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListLicensesRequest"
     },
    "output": {
      "target": "com.amazonaws.licensemanager#ListLicensesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
```

```
            "smithy.api#documentation": "<p>Lists
the licenses for your account.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListLicensesRequest": {
          "type": "structure",
          "members": {
            "LicenseArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
    <li>\n
            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
          <code>Status</code>\n            </p>\n          </li>\n        </ul>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#MaxSize100",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicensesResponse":
{
          "type": "structure",
          "members": {
            "Licenses": {
              "target": "com.amazonaws.licensemanager#LicenseList",
              "traits": {
```

```
            "smithy.api#documentation": "<p>License details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation":
```

```
"<p>Lists grants that are received. Received grants are grants created while specifying the\n recipient as this Amazon Web Services account, your organization, or an organizational unit\n (OU) to which this member account belongs.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n
    </li>\n        <li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n
</li>\n        </ul>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
                "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

 "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
```

```
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
          "type": "structure",
          "members": {
            "GrantArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n
</p>\n          </li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#MaxSize100",

      "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
          "type": "structure",
          "members": {
            "Grants": {
              "target": "com.amazonaws.licensemanager#GrantList",
              "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
```

```
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output":
{}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
      "type": "structure",
      "members":
{
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>Beneficiary</code>\n          </p>\n
    </li>\n        <li>\n          <p>\n            <code>ProductSKU</code>\n          </p>\n        </li>\n
</ul>"
          }
```

```
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {

        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#GrantedLicenseList",
          "traits": {
            "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {

      "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
```

```
            },
            "Filters": {
               "target": "com.amazonaws.licensemanager#FilterList",
               "traits": {
                  "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>Status</code>\n            </p>\n          </li>\n
<li>\n
            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
          <code>IssuerName</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Beneficiary</code>\n            </p>\n          </li>\n        </ul>"
               }
            },
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            },
            "MaxResults": {
               "target": "com.amazonaws.licensemanager#MaxSize100",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
               }
            }
         },
         "traits":
{
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
         "type": "structure",
         "members": {
            "Licenses": {
               "target": "com.amazonaws.licensemanager#GrantedLicenseList",
               "traits": {
                  "smithy.api#documentation": "<p>Received license details.</p>"
               }
            },
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         },
         "traits": {
```

```
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FailedDependencyException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target":
"com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
```

```
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            },
            "Filters": {
               "target":
 "com.amazonaws.licensemanager#InventoryFilterList",
               "traits": {
                  "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n        <li>\n        <p>\n        <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n        Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n        </li>\n        <li>\n        <p>\n
    <code>application_name</code> - The name of the application. \n        Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n        </li>\n        <li>\n        <p>\n
    <code>license_included</code> - The type of license included. \n        Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.\n        Possible values are <code>sql-server-
enterprise</code>
 | \n        <code>sql-server-standard</code> | \n        <code>sql-server-web</code> |  \n
<code>windows-server-datacenter</code>.</p>\n        </li>\n        <li>\n        <p>\n
<code>platform</code> - The platform of the resource.\n        Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p>\n        </li>\n        <li>\n        <p>\n
<code>resource_id</code> - The ID of the resource. \n        Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n        </li>\n        <li>\n        <p>\n
<code>tag:<key></code> - The key/value combination of a tag assigned \n        to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n        <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n        </li>\n        </ul>"

   }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
         "type": "structure",
         "members": {
            "ResourceInventoryList": {
               "target": "com.amazonaws.licensemanager#ResourceInventoryList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about the resources.</p>"
               }
            },
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListTagsForResource": {
          "type":
"operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the
 tags for the specified license configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
          "type": "structure",
          "members": {
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
```

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"

          }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

    "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n            <li>\n                <p>\n                    <code>LicenseArns</code>\n                </p>\n            </li>\n
</ul>"

                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation":
 "<p>Received token details.</p>"
                }
```

```
            },
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {

             "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n           consumption details by resource at a selected point in time. Use this action to audit the\n           current
license consumption for any license inventory and configuration.</p>"
         }
      },
      "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest":
```

```
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"

          }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n       are supported:</p>\n       <ul>\n       <li>\n       <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n       Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n       </li>\n       <li>\n       <p>\n
    <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> |
<code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n       Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n       </li>\n       <li>\n       <p>\n
    <code>resourceAccount</code>
 - The ID of the account that owns the resource. \n       Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n       </li>\n       </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
```

```
        "LicenseConfigurationUsageList": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license configurations.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
           }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#Location": {
      "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
      "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
          }
        },
        "AssociationCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"

    }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
```

```
    }
  },
  "com.amazonaws.licensemanager#MaxSize100": {
    "type": "integer",
    "traits": {
      "smithy.api#range": {
        "min": 1,
        "max": 100
      }
    }
  },
  "com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
      "smithy.api#length": {
        "min": 0,
        "max": 3
      }

    }
  },
  "com.amazonaws.licensemanager#Message": {
    "type": "string"
  },
  "com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>The key name.</p>"
        }
      },
      "Value": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>The value.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
  },
  "com.amazonaws.licensemanager#MetadataList": {
```

```
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Metadata"
        }
      },
      "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating
 a grant.\n          Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n
<code>Status</code> parameter.</p>\n          <ul>\n            <li>\n              <p>As a license administrator, you can optionally specify an\n                <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n
</li>\n            <li>\n              <p>As a grantor, you can optionally specify an\n
<code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n                account in your organization.</p>\n            </li>\n            <li>\n              <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n                <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n                are activating the grant.</p>\n
    </li>\n          </ul>\n          <dl>\n            <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n            <dd>\n
<p>Use this value to activate a grant without replacing any member accounts\n                active grants for the same product.</p>\n            </dd>\n            <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n            <dd>\n
   <p>Use this value to activate a grant and disable other active grants in any\n                member accounts for the same product. This action will also replace their\n                previously activated grants with this activated grant.</p>\n            </dd>\n          </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n          override behavior. For more information, see <a
```

```
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted
 licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation": "<p>Enables Organizations integration.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
      },
      "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits":
{
          "smithy.api#length": {
            "min": 1,
            "max": 1
          }
        }
      },
      "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Resource type. The possible values are
<code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductInformationFilterList": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
            "traits": {
              "smithy.api#documentation": "<p>A Product information filter consists of a
```

<code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code>
which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. \n Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. \n The following filters and are supported when the resource type \n is <code>SSM_MANAGED</code>: \n \n \n \n <code>Application Name</code> - The name of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Publisher</code> - The publisher of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The
version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical
operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes product information for a license configuration. "
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",

```
            "traits": {
              "smithy.api#documentation": "<p>Filter name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>Filter value.</p>"
            }
          },
          "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Logical operator.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
"<p>Describes product information filters.</p>"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ProductInformationFilter"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ProductInformation"
        }
      },
      "com.amazonaws.licensemanager#ProvisionalConfiguration": {
        "type": "structure",
        "members": {
          "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
              "smithy.api#required": {}

         }
          }
        },
```

```
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "RateLimitExceeded",
          "httpResponseCode": 429
        },
        "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 429
      }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
      "type": "structure",
      "members": {

   "ReceivedStatus": {
          "target": "com.amazonaws.licensemanager#ReceivedStatus",
          "traits": {
            "smithy.api#documentation": "<p>Received status.</p>"
          }
        },
        "ReceivedStatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Received status reason.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
      }
```

```
    },
    "com.amazonaws.licensemanager#ReceivedStatus":
{
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
            },
            "PENDING_ACCEPT": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_ACCEPT"
                }
            },
            "REJECTED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REJECTED"
                }
            },
            "ACTIVE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "ACTIVE"
                }
            },
            "FAILED_WORKFLOW": {

              "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "FAILED_WORKFLOW"
                }
            },
            "DELETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DELETED"
                }
            },
            "DISABLED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISABLED"
                }
            },
```

```
            "WORKFLOW_COMPLETED": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WORKFLOW_COMPLETED"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
            "Location":
{
                "target": "com.amazonaws.licensemanager#Location",
                "traits": {
                    "smithy.api#httpHeader": "Location"
                }
            },
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 308
        }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

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            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
         }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest":
{
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {

   "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
```

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            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType": {
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Weekly"
            }
          },
          "MONTHLY": {

          "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Monthly"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {
          "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that
this generator reports on.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
```

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        }
      },
      "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
        "members":
{
          "value": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
              "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n        The only supported value is <code>1</code>.</p>"
            }
          },
          "period": {
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",
            "traits": {
              "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {

           "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
```

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 },
 "com.amazonaws.licensemanager#ReportGenerator": {
    "type": "structure",
    "members": {
       "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
             "smithy.api#documentation": "<p>Name of the report generator.</p>"
          }
       },

 "ReportType": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
             "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
          }
       },
       "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
             "smithy.api#documentation": "<p>License configuration type for this generator.</p>"
          }
       },
       "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
             "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
          }
       },
       "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",

"traits": {
             "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
          }
       },
       "LastRunStatus": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
             "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
          }
       },
       "LastRunFailureReason": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
             "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
          }
       },
```

```
            "LastReportGenerationTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
                }
            },
            "Description": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
               "target":
 "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
```

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        }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
        "type": "string",
        "traits": {
          "smithy.api#length":
{
            "min": 1,
            "max": 100
          }
        }
      },
      "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
          "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }
          },
          "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ReportType"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventory":
{
        "type": "structure",
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
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                "smithy.api#documentation": "<p>Type of resource.</p>"
              }
            },
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
              }
            },
            "Platform": {
              "target": "com.amazonaws.licensemanager#String",

 "traits": {
                "smithy.api#documentation": "<p>Platform of the resource.</p>"
              }
            },
            "PlatformVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
              }
            },
            "ResourceOwningAccountId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#ResourceInventoryList": {
          "type": "list",
          "member": {
            "target":
"com.amazonaws.licensemanager#ResourceInventory"
          }
        },
        "com.amazonaws.licensemanager#ResourceLimitExceededException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
```

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        "aws.protocols#awsQueryError": {
          "code": "ResourceLimitExceeded",
          "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
       "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InvalidResource.NotFound",
          "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#ResourceType": {
      "type": "enum",
      "members": {
        "EC2_INSTANCE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EC2_INSTANCE"
          }
        },
        "EC2_HOST": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EC2_HOST"
          }
        },
        "EC2_AMI": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "EC2_AMI"
          }
        },
        "RDS": {
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```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "RDS"
            }
          },
          "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
          "bucket": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
            }

       },
          "keyPrefix": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
      },
      "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InternalError",
            "httpResponseCode": 500
          },
          "smithy.api#documentation": "<p>The server experienced an internal
```

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error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
            }
        }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag":
{
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag value.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member":
{
            "target": "com.amazonaws.licensemanager#Tag"
        }
    },
    "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
```

```
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
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```
            "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "ExpirationTime": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC format.</p>"
              }
            },
            "TokenProperties": {
              "target": "com.amazonaws.licensemanager#MaxSize3StringList",
              "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller.</p>"
              }
            },
            "RoleArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {
                "smithy.api#documentation":
 "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes a token.</p>"
          }
        },
        "com.amazonaws.licensemanager#TokenList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
          }
        },
        "com.amazonaws.licensemanager#TokenString": {
          "type": "string",
          "traits": {
            "smithy.api#length": {
              "min": 0,
              "max": 4096
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            },

          "smithy.api#pattern": "^\\S+$"
            }
        },
        "com.amazonaws.licensemanager#TokenType": {
            "type": "enum",
            "members": {
                "REFRESH_TOKEN": {
                    "target": "smithy.api#Unit",
                    "traits": {
                        "smithy.api#enumValue": "REFRESH_TOKEN"
                    }
                }
            }
        },
        "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
                "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        },
        "com.amazonaws.licensemanager#UntagResource":
 {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanager#UntagResourceRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanager#UntagResourceResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanager#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanager#AuthorizationException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes
 the specified tags from the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
 configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse":
 {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
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```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }

},
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
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            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a
license\n          configuration is licenseAffinityToHost.</p>"
            }
          },
          "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
            }
          },
          "LicenseCountHardLimit":
 {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New name of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New description of the license configuration.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {

              "smithy.api#documentation": "<p>New product information.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits": {
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```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n            <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportGeneratorName": {
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types are
supported:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
            "smithy.api#required": {}
          }
        },
        "ReportContext": {
          "target": "com.amazonaws.licensemanager#ReportContext",
          "traits": {
            "smithy.api#documentation": "<p>The report context.</p>",
            "smithy.api#required": {}
          }
        },
        "ReportFrequency": {
          "target": "com.amazonaws.licensemanager#ReportFrequency",
          "traits": {
            "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
            "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientRequestToken",
          "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
```

idempotency of the request. ",

"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanager#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanager#AuthorizationException"
},
{
"target": "com.amazonaws.licensemanager#InvalidParameterValueException"
},
{
"target": "com.amazonaws.licensemanager#InvalidResourceStateException"
},
{
"target": "com.amazonaws.licensemanager#LicenseUsageException"
},
{

```
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits":
{
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications":
{
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
```

```
        }
      },
      "com.amazonaws.licensemanager#UpdateServiceSettings": {

    "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates
 License Manager settings for the current Region.</p>"
        }
      },
      "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
          "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
 the License Manager information is stored.</p>"
            }
          },
          "SnsTopicArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
 for License Manager alerts.</p>"
```

```
            }
          },
          "OrganizationConfiguration": {
            "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
             "traits": {
               "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
            }
          },
          "EnableCrossAccountsDiscovery": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
               "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min":
0,
            "max": 50
          }
        }
      },
      "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
```

```
        }
      }
    }
  }
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
```

```
    // This member is required.
    DigitalSignatureMethod types.DigitalSignatureMethod

    // License entitlements. Partial checkouts are not supported.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Amazon Resource Name (ARN) of the license. The license must use the borrow
    // consumption configuration.
    //
    // This member is required.
    LicenseArn *string

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

    // Information about constraints.
    CheckoutMetadata []types.Metadata

    // Allowed license entitlements.
    EntitlementsAllowed
    []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
```

```
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 //
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string
```

```
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
```

1.64 go-compute-metadata 0.2.3

1.64.1 Available under license :

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
```

```
 //
 TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
```

```
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
```

```
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete:            []gax.CallOption{},
  Get:               []gax.CallOption{},
  GetIamPolicy:      []gax.CallOption{},
  Insert:            []gax.CallOption{},
  List:              []gax.CallOption{},
  SetIamPolicy:      []gax.CallOption{},
```

```
 TestIamPermissions: []gax.CallOption{},
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
 is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
 Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method
 to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
```

```
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud
 Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
```

```
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
 *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:
      c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
```

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
 "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }
```

```
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return
 nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers
```

```
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
```

```
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v",
 req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
```

```
 return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return maybeUnknownEnum(err)
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
 opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

```
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
 Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
```

```
return b
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
```

```
 return &LicenseCodesCallOptions{
  Get:              []gax.CallOption{},
  TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
```

```
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
```

```
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
 (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err
 != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := ioutil.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return maybeUnknownEnum(err)
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.65 go-openapi-jsonreference 0.20.2

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1.66 godotenv 1.5.1

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1.67 tilt-dev-fsnotify 1.4.8-0.20220602155310-fff9c274a375

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1.68 aws-aws-sdk-go-v2 1.16.9

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1.69 withfig-autocomplete-tools-integrations-cobra 1.2.1

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1.70 xanzy-ssh-agent 0.3.3

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1.71 gods 1.18.1

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1.72 gogo-protobuf 1.3.2

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Go support for Protocol Buffers - Google's data interchange format

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1.74 mitchellh-go-homedir 1.1.0

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1.75 mitchellh-go-wordwrap 1.0.1

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1.76 go-autorest-auth 0.5.12

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1.77 pjbgf-sha1cd 0.3.0

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1.78 aws-aws-sdk-go-v2 1.10.8

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
```

```
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
```

```
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err
 = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
```

```
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
```

```
// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
```

```
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
AWS SDK for Go
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Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
```

```
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err
 != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
```

```
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
 err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}
```

```
type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 build:

   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
```

```
        path: sdkmain
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }}| xargs > fileList.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
       working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on pr ref
      run: for filename in $(< fileList.txt); do ./scancode-toolkit/scancode -l -n 30 --json-pp - ./sdkmain/$filename |
grep short_name | sort | uniq >> old-licenses.txt; done
    - name: Run Scan code on target
      run: for filename in $(< fileList.txt); do ./scancode-toolkit/scancode -l -n 30 --json-pp - ./new-ref/$filename |
grep short_name | sort | uniq >> new-licenses.txt; done
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
```

1.79 filippo.io-edwards25519 1.0.0

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1.80 clockwork 0.4.0

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1.81 aws-aws-sdk-go-v2 1.18.7

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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```
// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string
```

```
 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name
 (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
```

```
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
 Region:        region,
 ServiceID:     ServiceID,
 SigningName:   "license-manager",
 OperationName: "CheckoutLicense",
}
}
```

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1.82 containerd-stargz-snapshotter-estargz 0.14.3

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1.83 aymanbagabas-go-osc52 2.0.1

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1.90 tjfoc-gmsm 1.4.1

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1.93 grpc-gateway 2.16.0

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1.94 survey 2.3.7

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1.95 go-openapi-errors 0.20.4

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1.96 go-openapi-swag 0.22.4

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1.97 golang-jwt 5.0.0

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1.99 google-gnostic-models 0.6.8

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1.100 gcfg 1.5.1-0.20230307220236-3a3c6141e376

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1.101 cenkalti-backoff 1.1.0

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1.102 in-toto-in-toto-golang 0.9.0

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1.103 transparency-dev-merkle 0.0.2

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1.104 alibabacloud-go-debug 1.0.0

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1.109 mxj 2.7.0

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1.110 proto-otlp 1.0.0

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1.111 protobuf 1.31.0

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1.112 structured-merge-diff 4.3.0

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1.115 moby-patternmatcher 0.6.0

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1.116 aws-aws-sdk-go-v2 1.16.16

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```
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package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
//
Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err
!= nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
```

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1.118 azure-azure-sdk-for-go-sdk-security-keyvault-internal 1.0.0

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1.119 cyphar-filepath-securejoin 0.2.4

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1.120 vault-api 1.10.0

1.120.1 Available under license :

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In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly
into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the
proper license. As the previous builds were both not working and causing confusion, we have removed
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  <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Details</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  <InfoTableRow @label="License ID" @value={{@licenseId}} data-test-detail-row />
  <InfoTableRow @label="Valid from" @value={{@startTime}} data-test-detail-row>
   {{date-format @startTime "MMM dd, yyyy hh:mm:ss a"}}
   to
   {{date-format @expirationTime "MMM dd, yyyy hh:mm:ss a"}}
  </InfoTableRow>
  <InfoTableRow @label="License state" @value={{if @autoloaded "Autoloaded" "Stored"}} data-test-detail-row>
   {{#if @autoloaded}}
    Autoloaded
   {{else}}
```

```
      Stored
      <Icon @name="alert-triangle-fill" class="has-text-highlight" />
      <span class="is-size-8">
        Stored licenses will be deprecated in a future version of Vault. We recommend
 autoloading your license. Read more
        <a href="https://www.vaultproject.io/docs/enterprise/license" rel="noreferrer noopener"
target="_blank">here</a>.
      </span>
    {{/if}}
  </InfoTableRow>
 </div>
</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  {{#each this.featuresInfo as |info|}}
    <InfoTableRow @label={{info.name}} @value={{if info.active "Active" "Not Active"}} data-test-feature-row>
      {{#if info.active}}
        <Icon @name="check-circle" class="icon-true" />
        <span data-test-feature-status>
          Active
          {{#if info.count}}&mdash; {{info.count}} standby nodes allotted{{/if}}
        </span>
      {{else}}
        <Icon @name="x-circle" class="icon-false" />
        <span data-test-feature-status>Not Active</span>
      {{/if}}
    </InfoTableRow>
  {{/each}}
 </div>
</section>
---
layout: docs
page_title: license - Command
description: |-
 The "license" command groups subcommands for interacting with Vault licenses.
---

# license

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/docs/enterprise/license)

## Examples

Query current license in use by a node:
```

```shell-session
$ vault license get
Key                     Value
---                     -----
expiration_time         2022-05-17T23:59:59.999Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time              2021-05-17T00:00:00Z
```

Query signed license string (only when
 using a deprecated stored license)

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Inspect a signed a license string:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy
 Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid

```

Usage

```text
Usage: vault license <subcommand> [options] [args]

 # ...

Subcommands:
   get      Query Vault's license
   inspect  View the contents of a license string
```

For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.
<LicenseInfo
 @startTime={{this.model.startTime}}
 @expirationTime={{this.model.expirationTime}}
 @licenseId={{this.model.licenseId}}
 @features={{this.model.features}}
 @autoloaded={{this.model.autoloaded}}
 @performanceStandbyCount={{this.model.performanceStandbyCount}}
/>
---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.

License Autoloading

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries
that contained embedded licenses, or via a license written into Vault storage
using the [POST sys/license API](/api/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
mechanism for managing licenses is called License Autoloading. New clusters are
required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in decreasing order
of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which
takes precedence over `license_path` in config.)

- [VAULT_LICENSE environment variable](/docs/commands#vault_license)
- [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
- [license_path in config](/docs/configuration#license_path)

Nodes within a cluster
 should be consistently licensed. All nodes in a cluster
should use autoloading, or none should. If autoloading is used, all nodes should

use the same license string. Warnings will be written to the log when there
are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence
of a stored license in conjunction with an autoloaded license will also result in
logged warnings. Once a migration to autoloading is completed, it is recommended to use
the [DELETE API](/api/system/license#delete-license) to remove the stored license.
---
layout: docs
page_title: Vault Enterprise License
description: An overview of license.

Vault License

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the
[FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.
---
layout: docs
page_title: license inspect - Command
description: |-
 The "license inspect" command describes the contents of a signed license string.
---

license inspect

The `license inspect` command describes the contents of a signed license string.

Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```shell-session
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-
```

17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance
Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Describe license at given path:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance
Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Usage

The following flags are available in addition to the [standard set of
flags](/docs/commands) included on all commands.

Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against
---
layout: docs
page_title: Frequently Asked Questions (FAQ)
description: An overview of license.

Frequently Asked Questions (FAQ)
```

This FAQ section is for the license changes introduced in Vault Enterprise 1.8.

- [Q: When will these licensing changes be released for Vault?](#q-when-will-these-licensing-changes-be-released-for-vault)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
-
[Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
-
[Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?](#q-what-is-the-migration-path-for-customers-who-wish-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-license-on-disk-flow-auto-loading)
- [Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-perpetually-licensed-binaries-to-the-current-license-on-storage-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre-Vault 1.8 (license in storage)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-8-or-later-auto-loading-to-a-pre-vault-1-8-license-in-storage)
- [Q: Is there
a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)
- [Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?](#q-what-are-the-steps-to-upgrade-from-one-autoloaded-license-to-another-autoloaded-license)
- [Q: What are the Vault ADP module licensing changes introduced in 1.8?](#q-what-are-the-vault-adp-module-licensing-changes-introduced-in-1-8)
- [Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?](#q-how-can-the-new-adp-modules-be-purchased-and-what-features-are-customer-entitled-to-as-part-of-that-purchase)
- [Q: What is the impact to customers based on these ADP module licensing changes?](#q-what-is-the-impact-to-

customers-based-on-these-adp-module-licensing-changes)

Q: When will these licensing changes be released for Vault?

The licensing and end-user license agreement (EULA) changes will be available
with Vault 1.8-RC1 on June 16, 2021. Vault 1.8 is targeted to release on July 28, 2021.

Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

Q: Do these license changes impact all Vault customers/licenses?

Customer/licenses	Impacted?
ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/))	Yes
Open-Source (OSS)	No
Baked-in license binaries (pro/premium)	No

Q: What is the product behavior
change introduced by the licensing changes?

With Vault 1.8, a valid license is required on-disk (auto-loading) or in-storage for Vault to boot up successfully.

- Existing clusters upgrading to Vault 1.8 or later will not be affected. Customers may continue to use an in-storage license for their existing clusters until they decide to move to auto-loading. Please see the question below: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

- When deploying Vault 1.8 or later clusters, please ensure a valid license exists on-disk (auto-loading).

Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.8. The grace period, defined as the time between license expiration and license termination, is 1 day for evaluation licenses (as of 1.8),
and ten years for non-evaluation licenses. Customers must install a valid license before the grace period expires. This license can be autoloaded or loaded into storage using existing methods (`/sys/license`) depending on the applicable scenarios as described above.
When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to install one, and this license will need to be auto-loaded.

Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for Enterprise binaries allows these particular binaries to run without a license file and will be removed as of Vault 1.8 and later. This change means that any clusters deployed with Vault 1.8 or later ENT

binaries must have a valid license, and the license must be on the disk (auto-loading).

Q: Are there any changes to existing
methods for manual license loading (API or CLI)?

There are no significant changes to the API or CLI license loading with Vault 1.8.
However, the `/sys/license` endpoint is slated for deprecation in a future release.
Please see the question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

Q: Does this affect clients?

No, there is no impact to the Vault Agent.

Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

Q: Will a EULA check happen every time
a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) .
Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

When a customer upgrades existing clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be in storage or on-disk (auto-loaded). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Also, when customers deploy new clusters to Vault 1.8 or later, a valid license must exist to upgrade successfully. This valid license must be on-disk (auto-loaded).

Q: What scenarios should a customer
plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.8 or later, a valid license must exist to successfully deploy. This valid license must be on-disk (auto-loaded).

- **Eventual Migration**: Since in-storage licenses will not be supported forever, migrating to auto-loaded licenses will be required. Please see the below question: [Is there a limited time for support of licenses that are in

storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault 1.7 cluster is upgraded to Vault 1.8 or later and still has a stored license, the operator must migrate using an auto-loaded license.

1. Use the new command `vault license get -signed` to retrieve the license from the storage in their running cluster.
2. Put the license on disk, configure
 auto-loading (new `license_path` config option, OR new environment variable `VAULT_LICENSE_PATH` OR new environment variable `VAULT_LICENSE` containing the actual license itself).
3. Restart the Vault node.
4. A warning will explain that the license is in storage and using auto-loading.
5. Use the new command `vault delete /sys/license` to fully transition to auto-loading.

Q: What is the migration path for customers who wish to migrate from their existing perpetually licensed binaries to the license on disk flow (auto-loading)?

A Vault customer who is currently using S3 unlocked binaries, upgrading their clusters to Vault 1.8 or later, and wishes to move to auto-loading, will need a valid enterprise binary version 1.8 or later and a valid license. The steps are the same as in the above question: [What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow) starting at Step 2.

Q: What is the migration path for customers who want to migrate from their existing perpetually licensed binaries to the current license on storage flow?

A Vault customer currently using S3 unlocked binaries is upgrading their clusters to a pre-Vault 1.8 version, the customer must retrieve the corresponding enterprise binary and a valid license to load the license in storage (`/sys/license`). Please see the below question: [Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)

Q: What is the path for customers who want to downgrade/rollback from Vault 1.8 or later (auto-loading) to a pre- Vault 1.8 (license in storage)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.8 or later, have a license installed via auto-loading,
 and would like to downgrade their cluster to a pre-1.8 version that does not have auto-loading support and only supports license in storage. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.8 enterprise binary version they wish to roll back, and bring up the clusters.

Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support.

To provide the support expected by our customers, we plan to scale support for licenses in storage for Vault. With this plan, Vault customers have up to a 1-year migration period, or until the release of Vault 1.11, to migrate their licenses from in-storage to auto-loading. Starting with Vault 1.11,
licensing endpoints that are put in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have auto-loaded licenses to upgrade to 1.11(+) successfully.

Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?

Follow these steps to migrate from one autoloaded license to another autoloaded license.

1. Use the [vault license inspect](/docs/commands/license/inspect) command to compare the new license against the output of the [vault license get](/docs/commands/license/get) command. This is to ensure that you have the correct license.
1. Backup the old license file in a safe location.
1. Replace the old license file on each Vault server with the new one.
1. Invoke the [reload command](/api-docs/system/config-reload#reload-license-file) on each individual Vault server, starting with the standbys and doing the leader last. Invoking in this manner reduces possible disruptions
if something was performed incorrectly with the above steps. You can either use the [reload command](/api-docs/system/config-reload#reload-license-file) or send a SIGHUP.
1. On each node, ensure that the new license is in use by using the [vault license get](/docs/commands/license/get) command and/or checking the logs.

ADP Licensing

This FAQ section is for the Advanced Data Protection (ADP) license changes introduced in Vault Enterprise 1.8.

Q: What are the Vault ADP module licensing changes introduced in 1.8?

As of Vault Enterprise 1.8, the functionality formerly sold as the Vault ADP module is now separated between two new modules:

ADP-KM includes:

- [Key Management Secrets Engine (KMSE)](/docs/secrets/key-management)
- [Key Management Interoperability (KMIP)](/docs/secrets/kmip)
- [MSSQL Transparent Data Encryption (TDE)](https://www.hashicorp.com/blog/enabling-transparent-data-encryption-for-microsoft-sql-with-vault)

ADP-Transform includes:

- [Transform Secrets
Engine (TSE)](/docs/secrets/transform)

Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?

ADP-KM includes:

- This is the first Vault Enterprise module that can be purchased standalone. This means it can be purchased without the purchase of a Vault Enterprise Standard license.
- ADP-KM still requires a Vault Enterprise binary. The Vault Enterprise Standard license is automatically included with the ADP-KM module, but customers are contractually prohibited from using any features besides those in Vault OSS and ADP-KM (KMSE and KMIP).

ADP-Transform includes:

- This module cannot be purchased as a standalone. It requires a Vault Enterprise binary, and customers must purchase the base Vault Enterprise Standard license (at least) to use the corresponding Enterprise features.
- The ADP-Transform SKU can be applied as an add-on. This workflow is similar to the consolidated ADP SKU.

Q: What is the impact to customers
based on these ADP module licensing changes?

Customers need to be aware of the following as a result of these changes:

- **New customers** may choose to purchase either or both of these modules. The old (consolidated) module is not available to them as an option.
- **Existing customers** may continue with the consolidated Vault ADP module uninterrupted. They will only be converted to one or both new ADP modules the next time they make a change to their licensing details (i.e. contract change).
.license-banner-wrapper {
 width: 100%;
 max-width: 1344px;
 margin: $spacing-l auto 0;
 padding: 0 1.5rem;
}
---
layout: docs
page_title: license get - Command
description: |-
 The "license get" command reports on the license in use.
---

license get

The `license get` command reports on the license in use. With the `-signed`
flag, it will return the actual license string, but only if the license
is stored, as opposed to [autoloaded](/docs/enterprise/license/autoloading).

Examples

Describe current license:

```shell-session
$ vault license get
Key                    Value
```

```
---                     -----
expiration_time         2022-05-17T23:59:59.999Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups
Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas
Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time              2021-05-17T00:00:00Z
```

Get stored
 license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

Usage

The following flags are available in addition to the [standard set of
flags](/docs/commands) included on all commands.

Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a
stored license.

```
---
layout: api
page_title: /sys/license - HTTP API
description: |-
 The `/sys/license` endpoint is used to view and update the license used in
 Vault.
---

# `/sys/license`

~> **Enterprise Only**  These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in
Vault.
```

Read License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead,
and see [License Status](#license-status) below for the non-deprecated equivalent API.

This endpoint returns information about the currently installed license.

Method	Path
`GET`	`/sys/license`

Sample Request

```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```

Sample Response

```json
{
 "data": {
   "expiration_time": "2017-11-14T16:34:36.546753-05:00",
   "features":
 ["UI", "HSM", "Performance Replication", "DR Replication"],
   "license_id": "temporary",
   "start_time": "2017-11-14T16:04:36.546753-05:00"
 },
 "warnings": ["time left on license is 29m33s"]
}
```

Read Signed License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint returns the signed license blob for the currently installed license.

Method	Path
`GET`	`/sys/license/signed`

Sample Request

```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license/signed
```

Sample Response

```json
{
 "data": {
  "signed": "01ABCDEFG..."
 }
}
```

Install License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This
 endpoint is used to install a license into Vault. The license will be
replicated to the Vault instances within the targeted cluster, but will not
replicate the license to a [performance replication](/docs/enterprise/replication) cluster. To license a
performance replication cluster, this must be run against a Vault instance within that cluster.

Method	Path
`POST`	`/sys/license`

Parameters

- `text` `(string: <required>)` The text of the license.

DR Secondary Specific Parameters

- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.
Note that this is the legacy mechanism for providing a DR operation token. It is
equally valid to provide the DR operation token in the `X-Vault-Token` header, as
with a regular vault token.

If you are using a batch `dr_operation_token`, note you will need to add the following to the token's policy

```# Manage license for DR Secondary
path "sys/replication/dr/secondary/license"
```

```
 {
capabilities = ["update"]
}```

### Sample Payload

```json
{
 "text": "01ABCDEFG..."
}
```

Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   --request POST \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```

Delete License

~> This API is deprecated as of Vault 1.8 and will be removed in a future version of Vault.
Please use [license autoloading](/docs/enterprise/license/autoloading) instead.

This endpoint is used to delete a stored license in Vault. This will return
an error unless license autoloading is in use.

Method	Path
`DELETE`	`/sys/license`

Sample Request

```shell-session
$ curl \
   --header "X-Vault-Token: ..." \
   --request DELETE \
   http://127.0.0.1:8200/v1/sys/license
```

License Status

This endpoint returns information about licensing. It returns similar information
to a GET of `sys/license`, but whereas that
```

endpoint reports solely on the
license Vault is currently using, this one reports on all licensing
information the Vault cluster has. See
[license autoloading](/docs/enterprise/license/autoloading) for background.

In the response:
* `autoloading_used` will be true if an autoloaded license was provided to the
 node, false otherwise.
* `autoloaded` is the autoloaded license if autoloading_used is true.
* `persisted_autoload` is the autoloaded license the active node last wrote to
 storage; this is only used to detect inconsistently licensed nodes in the
 cluster. It cannot be used as a license itself.
* `stored` is the stored license if any, i.e. one written using `POST sys/license`.

`autoloaded`, `persisted_autoload`, and `stored` all have the same structure,
which is also the same structure as the top-level `data` returned by `GET sys/license`.

Method	Path
`GET`	`/sys/license/status`

Sample Request

```shell-session
$ curl
 \
   --header "X-Vault-Token: ..." \
   http://127.0.0.1:8200/v1/sys/license/status
```

Sample Response

```json
{
 "data": {
   "autoloading_used": true,
   "autoloaded": {
     "expiration_time": "2022-05-17T23:59:59.999Z",
     "features": [
       "HSM",
       "Performance Replication",
       "DR Replication",
       "MFA",
       "Sentinel",
       "Seal Wrapping",
       "Control Groups",
       "Performance Standby",
       "Namespaces",
```

```
      "KMIP",
      "Entropy Augmentation",
      "Transform Secrets Engine",
      "Lease Count Quotas",
      "Key Management Secrets Engine",
      "Automated Snapshots"
    ],
    "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
    "performance_standby_count": 9999,
    "start_time": "2021-05-17T00:00:00Z"
  },
  "persisted_autoload": {
    "expiration_time": "2022-05-17T23:59:59.999Z",
    "features": [
      "HSM",
      "Performance Replication",
      "DR Replication",

      "MFA",
      "Sentinel",
      "Seal Wrapping",
      "Control Groups",
      "Performance Standby",
      "Namespaces",
      "KMIP",
      "Entropy Augmentation",
      "Transform Secrets Engine",
      "Lease Count Quotas",
      "Key Management Secrets Engine",
      "Automated Snapshots"
    ],
    "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
    "performance_standby_count": 9999,
    "start_time": "2021-05-17T00:00:00Z"
  }
 },
}
```

```
{{#if this.licenseExpired}}
 <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
  <AlertBanner
    @type="danger"
    @title="License expired"
    @message="Your Vault license expired on {{date-format
      @expiry
      "MMM d, yyyy"
    }}. Add a new license to your configuration and restart Vault."
    @marginless={{true}}
```

```
  >
    <a
      href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
      target="_blank"
      rel="noreferrer noopener"
    >
      Read documentation
    </a>
  </AlertBanner>
 </div>
{{else if (lte this.licenseExpiringInDays 30)}}
 <div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
  <AlertBanner
    @type="warning"
    @title="Vault license expiring"
    @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format
      @expiry
      "hh:mm:ss a"
    }} on {{date-format
 @expiry "MMM d, yyyy"}}. {{if
      @autoloaded
      "Add a new license to your configuration."
      "Keep in mind that your next license will need to be autoloaded"
    }}"
    @marginless={{true}}
  >
    <a
      href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
      target="_blank"
      rel="noreferrer noopener"
    >
      Read documentation
    </a>
  </AlertBanner>
 </div>
{{/if}}
package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
```

1.121 google-s2a-go 0.1.7

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1.122 zap 1.26.0

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1.124 gotenv 1.6.0

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1.125 go-restful 3.11.0

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1.126 azuread-microsoft-authentication-library-for-go 1.2.0

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1.127 go-sockaddr 1.0.5

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1.129 prometheus-procfs 0.12.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.130 go-git-go-billy 5.5.0

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1.131 goterm 1.0.4

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1.132 go-shellwords 1.0.12

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1.133 otel-exporters-prometheus 0.42.0

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1.134 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 0.42.0

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1.138 golang-protobuf-extensions 2.0.0

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1.139 prometheus-common 0.45.0

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1.140 mattn-go-isatty 0.0.20

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1.141 google-go-cmp 0.6.0

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1.142 sagikazarmark-slog-shim 0.1.0

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1.143 viper 1.17.0

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1.144 kubernetes-apimachinery 0.28.3

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1.146 azure-azure-sdk-for-go-sdk-azidentity 1.4.0

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1.154 googleapis-enterprise-certificate-proxy 0.3.2

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1.155 x-text 0.14.0

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1.156 alibabacloud-go-tea-utils 1.4.5

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1.157 docker-credential-helpers 0.8.0

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1.158 vbatts-tar-split 0.11.5

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1.159 alibabacloud-go-darabonba-openapi 0.2.1

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1.160 gorilla 1.8.1

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1.161 prometheus-client 1.17.0

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1.162 felixge-httpsnoop 1.0.4

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1.163 go-iam 1.1.5

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
```

```
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
```

```
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string
```

```
 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
```

```
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
```

```
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
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func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// Copyright 2023 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
```

```
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
```

```
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000
* time.Millisecond),
 },
}
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
```

```
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}
```

```
// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
```

```
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
```

```
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for
 a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
```

```
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
```

```
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req !=
nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
```

```
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo
 *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
```

```
// results. Once Next returns Done,
 all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.

```
// It will
require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
```

```
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
```

```
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

1.164 cobra 1.8.0

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Found in path(s):
* /opt/cola/permits/1850148317_1700476305.0237145/0/project-nisei-cobra-v1-8-0-0-gb4b183f-tar-gz/Project-NISEI-cobra-b4b183f/app/assets/javascripts/awesomplete.js

1.165 x-sync 0.5.0

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1.166 azure-azure-sdk-for-go-sdk-internal 1.5.0

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1.167 azure-azure-sdk-for-go-sdk-azcore 1.9.0

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1.169 x-mod 0.14.0

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1.170 cockroachdb-apd 3.2.1

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1.173 jellydator-ttlcache 3.1.0

1.173.1 Available under license :

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1.174 aws-aws-sdk-go-v2-service-ecr 1.20.2

1.174.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
```

```
c.addOperationCheckoutLicenseMiddlewares)
 if
 err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time
 at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err
= awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options);
err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}

type opCheckoutLicenseResolveEndpointMiddleware
 struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
```

```
if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil
{
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme
:= range authSchemes {
 switch authScheme.(type) {
```

```
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme,
_ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
```

```
 BuiltInResolver:
&builtInResolver{
  Region:       options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:     options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
```

AWS SDK for Go
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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
  name: License Scan
  runs-on: ubuntu-latest
  strategy:
    matrix:
      python-version: [3.9]

  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
```

```
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
          "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
```

```
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {

        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/GetServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
      "type": "structure",
      "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
      "type": "structure",
```

```
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
          },
          "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

        },
          "AccountID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of the instance.</p>"
            }
          },
          "Region": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
            }
          },
          "UsageOperation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
            }
          },
          "ProductCode": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
            "traits": {
              "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
            }
          },
          "LastUpdatedTime": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
            }
          },
          "SubscriptionName": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
           }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
```

```
            },
            {
               "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
         ],

      "traits": {
            "aws.api#service": {
               "sdkId": "License Manager Linux Subscriptions",
               "arnNamespace": "license-manager-linux-subscriptions",
               "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
               "name": "license-manager-linux-subscriptions"
            },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
               "additionalAllowedHeaders": [
                  "*",
                  "content-type",
                  "x-amz-content-sha256",
                  "x-amz-user-agent",
                  "x-amzn-platform-id",
                  "x-amzn-trace-id",
                  "content-length",
                  "x-api-key",
                  "authorization",
                  "x-amz-date",

 "x-amz-security-token",
                  "Access-Control-Allow-Headers",
                  "Access-Control-Allow-Methods",
                  "Access-Control-Allow-Origin"
               ],
               "additionalExposedHeaders": [
                  "x-amzn-errortype",
                  "x-amzn-requestid",
                  "x-amzn-trace-id"
               ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager Linux Subscriptions",
            "smithy.rules#endpointRuleSet": {
               "version": "1.0",
               "parameters": {
                  "Region": {
                     "builtIn": "AWS::Region",
```

```
                "required": false,
                "documentation": "The
 AWS region used to dispatch the request.",
                "type": "String"
              },
              "UseDualStack": {
                "builtIn": "AWS::UseDualStack",
                "required": true,
                "default": false,
                "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                "type": "Boolean"
              },
              "UseFIPS": {
                "builtIn": "AWS::UseFIPS",
                "required": true,
                "default": false,
                "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

               "type": "Boolean"
              },
              "Endpoint": {
                "builtIn": "SDK::Endpoint",
                "required": false,
                "documentation": "Override the endpoint used to send this request",
                "type": "String"
              }
            },
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "isSet",
                    "argv": [
                      {
                        "ref": "Endpoint"
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {

                    "conditions": [
                          {
                            "fn": "booleanEquals",
```

```
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {

           "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },
              {
                "conditions": [],

         "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
```

```
                "conditions": [],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "isSet",

      "argv": [
                          {
                            "ref": "Region"
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [
                          {
                            "fn": "aws.partition",
                            "argv": [
                              {
                                "ref": "Region"
                              }
                            ],

"assign": "PartitionResult"
                          }
                        ],
                        "type": "tree",
                        "rules": [
                          {
                            "conditions": [
                              {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
                                    "ref": "UseFIPS"
                                  },
                                  true
                                ]
                              },

                       {
                                "fn": "booleanEquals",
                                "argv": [
                                  {
```

```
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {

                "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]

}
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },

                     "supportsDualStack"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
```

```
                "type": "tree",
                "rules": [
                  {

            "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]

        },
          {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
            "type": "error"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {

      "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
```

```
    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",

                    "rules": [
                            {
                                "conditions": [],
                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [],
                                        "endpoint": {
                                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                            "properties": {},
                                            "headers": {}

                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]

    },
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
```

```
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {

     "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],

                    "endpoint": {
                            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },
```

```
        {
                                    "conditions": [],
                                    "error": "DualStack is enabled but this partition does not support DualStack",
                                    "type": "error"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                }
            ]
        },
        {
            "conditions": [],
            "error": "Invalid Configuration: Missing Region",
            "type": "error"
        }
    ]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
```

```
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {

"endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
             "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
```

```
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": true,
               "UseDualStack": false
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint":
{
                "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": false,
              "UseDualStack": false
```

```
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
```

```
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
         "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
         }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
```

```
            }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {

         "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
```

```
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
              },
              "params": {
                "Region": "us-isob-east-1",

        "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

          "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
```

```
                    "UseDualStack": false,

          "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true,
                  "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "Missing region",
                "expect": {
                  "error": "Invalid Configuration: Missing Region"
                }

      }
          ],
          "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
            "value": "Disabled",
            "documentation": "Disabled LinuxSubscriptionsDiscovery"
          }
      ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
```

```
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {
```

```
 "code": 200,
            "method": "POST",
            "uri": "/subscription/ListLinuxSubscriptionInstances"
          },
          "smithy.api#idempotent": {},
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "Instances"
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n          <li>\n            <p>\n              <code>AmiID</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>InstanceID</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>AccountID</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Region</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>UsageOperation</code>\n            </p>\n          </li>\n          <li>\n
    <p>\n              <code>ProductCode</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
     <code>InstanceType</code>\n            </p>\n          </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n          <li>\n            <p>\n              <code>contains</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>equals</code>\n            </p>\n          </li>\n          <li>\n
        <p>\n              <code>Notequal</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

      }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>",
              "smithy.api#length": {
```

```
                    "min": 1,
                    "max": 16384
                }
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
    "type": "structure",
    "members": {
        "Instances": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
            "traits": {
                "smithy.api#documentation":
"<p>An array that contains instance objects.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n <li>\n          <p>\n              <code>Subscription</code>\n          </p>\n      </li>\n      </ul>\n <p>The valid Operators for this filter are:</p>\n
      <ul>\n      <li>\n          <p>\n              <code>contains</code>\n          </p>\n      </li>\n <li>\n          <p>\n              <code>equals</code>\n          </p>\n      </li>\n      <li>\n          <p>\n
          <code>Notequal</code>\n          </p>\n      </li>\n      </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                    "smithy.api#length": {
```

```
                "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
            "traits": {
              "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "EQUAL",
              "value": "Equal",
              "documentation": "Equal operator"
            },
            {
              "name": "NOT_EQUAL",
              "value": "NotEqual",
              "documentation": "Not equal operator"
            },
            {
              "name": "CONTAINS",
              "value": "Contains",
              "documentation": "Contains operator"
            }
```

```
        ],
        "smithy.api#length": {
          "min": 1,
          "max": 20
        }
      }
    },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled OrganizationIntegration"
          },
          {
            "name": "Disabled",
            "value": "Disabled",
            "documentation": "Disabled OrganizationIntegration"
          }
        ]
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
      "type": "list",
      "member": {
        "target": "smithy.api#String"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [

   {
            "name": "InProgress",
            "value": "InProgress",
            "documentation": "InProgress status"
          },
          {
            "name": "Completed",
            "value": "Completed",
            "documentation": "Completed status"
          },
          {
            "name": "Successful",
```

```
                "value": "Successful",
                "documentation": "Successful status"
              },
              {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
          "type": "list",
          "member": {
            "target": "smithy.api#String",
            "traits":
{
              "smithy.api#length": {
                "min": 1,
                "max": 100
              }
            }
          },
          "traits": {
            "smithy.api#length": {
              "min": 1,
              "max": 100
            },
            "smithy.api#uniqueItems": {}
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
          "type": "map",
          "key": {
            "target": "smithy.api#String"
          },
          "value": {
            "target": "smithy.api#String"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the subscription.</p>"
```

```
        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },
```

```
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
            "smithy.api#required": {}
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
          }
        },
        "AllowUpdate": {
          "target": "smithy.api#Boolean",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
          "type": "structure",
          "members": {
            "LinuxSubscriptionsDiscovery": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
              "traits": {
                "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
              }
            },

           "LinuxSubscriptionsDiscoverySettings": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
              "traits": {
                "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
              "traits": {
                "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
              }
            },
            "StatusMessage": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
              "traits": {
                "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
              }
            },
            "HomeRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
              "traits": {
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated data for Linux\n      subscriptions.</p>"
              }
            }
          }
        },
```

```
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
         "type": "structure",
         "members": {
            "message": {
               "target": "smithy.api#String"
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
         }
      }
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata
```

```
 = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
```

```
if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to
not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "grafana"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err,
&ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
```

```
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "grafana"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx,
*v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("grafana")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func
 addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
```

```
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out,
 nil
}

type GetLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func
 (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
```

```
}

req.URL = &resolvedEndpoint.URI

for
k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var
signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
```

```
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName ==
nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:
     options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata
 = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod
```

```
 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type
 CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{},
 middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
```

```
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata,
 fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
   k,
   resolvedEndpoint.Headers.Get(k),
  )
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
  var nfe *internalauth.NoAuthenticationSchemesFoundError
```

```
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if
errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the
value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
```

```
   }
   if v4aScheme.DisableDoubleEncoding != nil {
    // The signer sets an equivalent value at client initialization time.
    // Setting this context value will cause the signer to extract it
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
   }
   ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
   ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
   break
  case *internalauth.AuthenticationSchemeNone:
   break
  }
 }

 return
 next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string
```

```
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if
err != nil {
 return err
}
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:
     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}
```

```
func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint
 smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
   k,
   resolvedEndpoint.Headers.Get(k),
  )
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
  var nfe *internalauth.NoAuthenticationSchemesFoundError
  if errors.As(err, &nfe) {
   // if no auth scheme is found, default to sigv4
   signingName := "license-manager"
   signingRegion := m.BuiltInResolver.(*builtInResolver).Region
```

```
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the
client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx,
signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
```

```
    // and override the value set at client initialization time.
    ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
   }
   ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
   ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
   break
  case *internalauth.AuthenticationSchemeNone:
   break
  }
 }

 return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options)
 error {
 return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
```

```
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addDeleteLicenseResolveEndpointMiddleware(stack,
options); err != nil {
 return err
```

```
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}

type
 opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
```

```
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx,
 params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
   k,
   resolvedEndpoint.Headers.Get(k),
  )
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
  var nfe *internalauth.NoAuthenticationSchemesFoundError
  if errors.As(err, &nfe) {
   // if no auth scheme is found, default to sigv4
   signingName := "license-manager"
   signingRegion := m.BuiltInResolver.(*builtInResolver).Region
   ctx = awsmiddleware.SetSigningName(ctx, signingName)
   ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

  }
  var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
  if errors.As(err, &ue) {
   return out, metadata, fmt.Errorf(
```

```
  "This operation requests signer version(s) %v but the client only supports %v",
  ue.UnsupportedSchemes,
  internalauth.SupportedSchemes,
 )
 }
}

for
_, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case
*internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
```

```
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
  EndpointResolver:
 options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}
```

```
type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if
 err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}
```

```
type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware)
 ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for
 k := range resolvedEndpoint.Headers {
  req.Header.Set(
   k,
   resolvedEndpoint.Headers.Get(k),
  )
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
```

```
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ :=
authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName
```

```
== nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:
      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
```

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```
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package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata
 = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter
```

```
 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if
 err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return
 err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return
 out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)
```

```
var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if
errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
```

```
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override
the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return
 next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
```

```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p>\n        <note>\n        <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
              }
            },
            "InstanceId": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
              "smithy.api#documentation": "<p>The identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
             "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
      },
      "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
 {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
             },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                 "smithy.api#required": {}
               }
            },
            "Product": {
              "target": "smithy.api#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },

"com.amazonaws.licensemanagerusersubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Attribute": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
          }
        },
        "Operation": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
          }
        },
        "Value": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Value of the filter.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
      }
    },
```

```
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
      "type": "union",
      "members": {
        "ActiveDirectoryIdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
      "type": "structure",
      "members": {
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }
        },
        "Settings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
          "traits": {
            "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
            "smithy.api#required":
{}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of an identity provider.</p>",
            "smithy.api#required": {}
          }
        },
```

```
            "FailureMessage": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation":
"<p>Describes an identity provider.</p>"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
         "type": "structure",
         "members": {
            "InstanceId": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                  "smithy.api#required": {}
               }
            },
            "Status": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
                  "smithy.api#required": {}
               }
            },
            "Products": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
               "traits": {
                  "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                  "smithy.api#required": {}
               }
            },
            "LastStatusCheckDate": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The date of the last status check.</p>"
```

```
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

      }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
            "traits":
 {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
            }
        }

  },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
```

```
    },
    "traits": {
      "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
      "smithy.api#error": "server"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
    "type": "service",

   "version": "2018-05-10",
    "operations": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
      }
    ],
    "traits": {
      "aws.api#service": {
```

```
            "sdkId": "License Manager User Subscriptions",
            "arnNamespace": "license-manager-user-subscriptions",
            "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
            "name": "license-manager-user-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
            "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
                "x-amz-user-agent",
                "x-amzn-platform-id",
                "x-amzn-trace-id",
                "content-length",
                "x-api-key",
                "authorization",
                "x-amz-date",
                "x-amz-security-token",
                "Access-Control-Allow-Headers",
                "Access-Control-Allow-Methods",
                "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
                "x-amzn-errortype",
                "x-amzn-requestid",
                "x-amzn-trace-id"

 ]
        },
        "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to
utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager User Subscriptions",
        "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
                "Region": {
                    "builtIn": "AWS::Region",
                    "required": false,
                    "documentation": "The AWS region used to dispatch the request.",
                    "type": "String"
                },
                "UseDualStack": {
                    "builtIn": "AWS::UseDualStack",
                    "required": true,
                    "default": false,
```

```
            "documentation": "When true, use the dual-stack
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
            "type": "Boolean"
          },
          "UseFIPS": {
            "builtIn": "AWS::UseFIPS",
            "required": true,
            "default": false,
            "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
            "type": "Boolean"
          },
          "Endpoint": {
            "builtIn": "SDK::Endpoint",
            "required": false,
            "documentation": "Override the endpoint used to send this request",
            "type": "String"
          }

    },
        "rules": [
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Endpoint"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },

                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
```

```
            "type": "error"
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [

{
                "ref": "Region"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
```

```
                "fn": "aws.partition",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",

    "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",

"argv": [
                                {
                                  "ref": "PartitionResult"
```

```
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

            "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

        "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                         "type": "error"
                    }
                ]
            },
            {
                "conditions": [
```

```
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },
                    true
                  ]
                }
              ],
              "type": "tree",

      "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsFIPS"

                       ]
                          }
                        ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [],
                      "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}

          },
                      "type": "endpoint"
                    }
                  ]
                },
                {
```

```
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

                    "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {

                  "conditions": [],
                   "endpoint": {
                      "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
```

```
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does
 not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
    ]
    },
    {
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
    }
  ]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": true,
```

```
            "UseDualStack": true
          }
        },
        {
          "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
            }
          },

        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
          "expect": {
```

```
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },

      "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1
 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
```

```
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
            }
          },

      "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
```

```
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
              },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
              },
              "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
              "expect":
{
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                }
              },
              "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
              },
              "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack":
true
              }
            },
```

```
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }

    },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
```

```
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
```

```
            "params": {
              "Region": "us-east-1",
               "UseFIPS": true,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
          },
          {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": true,
              "Endpoint": "https://example.com"
            }
          },
          {
            "documentation": "Missing region",
            "expect": {
               "error": "Invalid Configuration: Missing Region"
            }
          }
        ],
        "version": "1.0"
      }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
```

```
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/identity-provider/ListIdentityProviders"
        },
        "smithy.api#paginated":
{
          "inputToken": "NextToken",
          "outputToken": "NextToken",
          "pageSize": "MaxResults",
          "items": "IdentityProviderSummaries"
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
      "type": "structure",
      "members": {
        "MaxResults": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
```

```
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
```

```
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
             "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
 "structure",
        "members": {
          "InstanceSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
```

```
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity provider.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/ListProductSubscriptions"
```

```
            },
            "smithy.api#paginated": {
               "inputToken": "NextToken",
               "outputToken": "NextToken",
               "pageSize": "MaxResults",
               "items": "ProductUserSummaries"
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
         "type": "structure",
         "members": {
            "Product": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The name
of the user-based subscription product.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "MaxResults": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
               }
            },
            "Filters": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
               "traits": {

 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
one or\n      more sets of key-value pairs that you specify.</p>"
               }
            },
            "NextToken": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "ProductUserSummaries": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
          }
        },

     "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
```

```
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
          "type": "structure",
          "members": {
            "InstanceUserSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
          "type": "structure",
          "members": {

          "Username": {
                "target": "smithy.api#String",
                "traits": {
                  "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                  "smithy.api#required": {}
                }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
```

```
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }

    },
            "Status": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                "smithy.api#required": {}
              }
            },
            "StatusMessage": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
              }
            },
            "Domain": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
              }
            },
            "SubscriptionStartDate": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
              }
            },
            "SubscriptionEndDate": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The end date of a subscription.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
          "type": "list",
          "member": {
```

```
      "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
      "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/identity-provider/RegisterIdentityProvider"
      },
      "smithy.api#idempotent": {}
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
      "IdentityProvider": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary":
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
          "Subnets": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation":
"<p>The subnets defined for the registered identity provider.</p>",
              "smithy.api#length": {
                "min": 1
              },
              "smithy.api#required": {}
            }
          },
          "SecurityGroupId": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
            "traits": {
              "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
              "smithy.api#required": {}
            }
          }
        },
```

```
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688 communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n          <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n          monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
```

```
            "method": "POST",
            "uri": "/user/StartProductSubscription"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
           "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/StopProductSubscription"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
          "Username": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required":
{}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
```

```
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
      "type": "string",
      "traits": {
        "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
      "type": "structure",
      "members": {
        "message": {

         "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n <ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n            <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n <li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#required": {}
                }
```

```
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
          "type": "structure",
          "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                  "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                  "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
              "traits": {
                "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                "smithy.api#required": {}
              }
            },
            "SecurityGroupId": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
              "traits": {
                "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
          "type": "structure",
          "members": {
            "message": {
              "target": "smithy.api#String"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
          }
        }
```

```
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
      {
        "id": "HttpMethodSemantics",
        "namespace": "*"
      },
      {
        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
      },
      {
        "id": "PaginatedTrait",
        "namespace": "*"
      },
      {
        "id": "HttpHeaderTrait",
        "namespace": "*"
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
  },
  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
      "type": "service",
      "version": "2018-08-01",
      "operations": [
        {
          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

 {
          "target": "com.amazonaws.licensemanager#CheckInLicense"
        },
        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
        },
        {
```

```
      "target": "com.amazonaws.licensemanager#CheckoutLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
    },
    {
      "target": "com.amazonaws.licensemanager#CreateToken"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
```

```
{
   "target": "com.amazonaws.licensemanager#GetGrant"
},
{
   "target": "com.amazonaws.licensemanager#GetLicense"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
},
{
   "target": "com.amazonaws.licensemanager#GetLicenseUsage"
},
{
   "target": "com.amazonaws.licensemanager#GetServiceSettings"
},
{
   "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
 },
{
   "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{
```

```
      "target": "com.amazonaws.licensemanager#ListLicenseVersions"
    },
    {
      "target": "com.amazonaws.licensemanager#ListReceivedGrants"
    },
    {
      "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
    },
    {
      "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
    },
    {
      "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
    },
    {
      "target": "com.amazonaws.licensemanager#ListResourceInventory"
    },
    {
      "target": "com.amazonaws.licensemanager#ListTagsForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#ListTokens"
    },
    {
      "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#RejectGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#TagResource"
    },
    {
      "target": "com.amazonaws.licensemanager#UntagResource"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
    },
    {
      "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
    }
  ],
```

```
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
                "arnNamespace": "license-manager",
                "cloudFormationName": "LicenseManager",
                "cloudTrailEventSource": "licensemanager.amazonaws.com",
                "endpointPrefix": "license-manager"
            },
            "aws.auth#sigv4": {
                "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
                "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            },
            "smithy.rules#endpointRuleSet": {
                "version": "1.0",
                "parameters": {
                    "Region": {
                        "builtIn": "AWS::Region",
                        "required": false,
                        "documentation": "The AWS region used to dispatch the request.",
                        "type": "String"
                    },
                    "UseDualStack": {
                        "builtIn": "AWS::UseDualStack",
                        "required": true,
                        "default": false,
                        "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                        "type": "Boolean"
                    },
                    "UseFIPS": {
                        "builtIn": "AWS::UseFIPS",
                        "required": true,
                        "default": false,
                        "documentation": "When true, send
 this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
                        "type": "Boolean"
                    },
                    "Endpoint": {
                        "builtIn": "SDK::Endpoint",
                        "required": false,
                        "documentation": "Override the endpoint used to send this request",
```

```
            "type": "String"
          }
        },
        "rules": [
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Endpoint"
                  }
                ]

              }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
                      ]
                    }
                  ],
                  "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                  "type": "error"
                },
                {

    "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseDualStack"
                        },
                        true
                      ]
                    }
                  ],
                  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                  "type": "error"
```

```
        },
        {
          "conditions": [],
          "endpoint": {
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              "ref": "Endpoint"
             },
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
        }
      ]
    },
    {
      "conditions": [
        {
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          "argv": [
            {
              "ref": "Region"
            }
          ]
        }
      ],
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              "argv": [
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                  "ref": "Region"
                }
              ],
              "assign": "PartitionResult"
            }
          ],
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              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref":
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"UseFIPS"
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                                    "fn": "booleanEquals",
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                                        },
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                                                    "fn": "getAttr",
                                                    "argv": [
                                                        {
                                                            "ref": "PartitionResult"
                                                        },
                                                        "supportsFIPS"
                                                    ]

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                                                    "argv": [
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                                                            "ref": "PartitionResult"
                                                        },

  "supportsDualStack"
                                                    ]
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                    }
                  ]
                }
              ],
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              "rules": [
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}

                },
                  "type": "endpoint"
                }
              ]
            },
            {
              "conditions": [],
              "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
              "type": "error"
            }
          ]
        },
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                },
                true
              ]
            }
          ],
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          "rules": [
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                {
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                  "argv": [
                    true,
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                        "argv": [
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                            },
                            "supportsFIPS"
                        ]
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [

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                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS is enabled but this
partition does not support FIPS",
        "type": "error"
    }
    ]
},
{
    "conditions": [
        {
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            "argv": [
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                },
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            ]
        }
    ],
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                        "argv": [
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                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

    "supportsDualStack"
                          ]
                        }
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [],
                      "endpoint": {
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}

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                      "type": "endpoint"
                    }
                  ]
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                {
                  "conditions": [],
                  "error": "DualStack is enabled but this partition does not support DualStack",
                  "type": "error"
                }
              ]
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            {
              "conditions": [],
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                "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                 "properties": {},
                "headers": {}
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```
                        },
                        "type": "endpoint"
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                    ]
                  }
                ]
              },
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                "conditions": [],
                "error": "Invalid Configuration: Missing Region",
                "type": "error"
              }
            ]
          },
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            "testCases": [
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                "expect": {
                  "endpoint":
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                  }
                },
                "params": {
                  "Region": "af-south-1",
                  "UseFIPS": false,
                  "UseDualStack": false
                }
              },
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                "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                  }
                },
                "params": {
                  "Region": "ap-east-1",
                  "UseFIPS": false,
                  "UseDualStack": false
                 }
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                "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
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```
            }
          },
          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-northeast-2.amazonaws.com"
             }
          },
          "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }

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          "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
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          "expect": {
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          },
          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
          },
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            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-central-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
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        "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-north-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region":
"eu-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
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          "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

 "UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
```

```
      "params": {
        "Region": "me-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.sa-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "sa-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }

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    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
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          "url": "https://license-manager-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-east-2.amazonaws.com"
        }

      },
      "params": {
        "Region": "us-east-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-east-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-2",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-west-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-west-1.amazonaws.com"
        }
      },
      "params": {
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        "Region": "us-west-1",
                "UseFIPS": true,
                "UseDualStack": false
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            "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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                "endpoint": {
                    "url": "https://license-manager.us-west-2.amazonaws.com"
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            },
            "params": {
                "Region": "us-west-2",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
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                    "url": "https://license-manager-fips.us-west-2.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-west-2",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,

                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
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```
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.us-east-1.api.aws"
                  }
                },
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true
                }
              },
              {
                "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
                  }
                },
                "params": {
                  "Region": "cn-north-1",
                  "UseFIPS": false,
                  "UseDualStack": false
                }
              },
              {
                "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
                  }
                },
                "params": {
                  "Region": "cn-northwest-1",
                  "UseFIPS": false,
                  "UseDualStack": false

    }
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              {
                "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
                  }
                },
                "params": {
                  "Region": "cn-north-1",
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            "UseFIPS": true,
            "UseDualStack": true
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          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
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        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },

    {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
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```
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": false,
              "UseDualStack": false
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          },
          {
            "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.api.aws"
              }
            },

    "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": true
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      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
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          "url": "https://license-manager.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
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            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled
but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
            }
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },

      {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
```

```
                },

            "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "UseFIPS": false,

        "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
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                },
                {
                  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
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                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                  "expect": {
                    "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "Missing region",
                  "expect": {
                    "error": "Invalid Configuration: Missing Region"
                  }
                }
              ],
              "version": "1.0"
            }
          }
        },
        "com.amazonaws.licensemanager#AcceptGrant": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
          "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
          },
          "errors": [
            {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
    ],
    "traits": {
      "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant
```

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ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {

 "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
            "DISTRIBUTED_GRANTS_ONLY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
                }
            },
            "ALL_GRANTS_PERMITTED_BY_ISSUER": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperation": {

    "type": "enum",
        "members": {
          "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateGrant"
            }
          },
          "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutLicense"
            }
          },
          "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
```

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            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max":
7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
```

```
{
            "code": "AuthorizationFailure",
            "httpResponseCode": 403
        },
        "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 403
      }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
      "type": "structure",
      "members": {
        "LastRunTime": {
          "target": "com.amazonaws.licensemanager#DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
      }
    },

  "com.amazonaws.licensemanager#Boolean": {
      "type": "boolean",
      "traits": {
        "smithy.api#default": false
      }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
      "type": "structure",
      "members": {
        "AllowEarlyCheckIn": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
```

```
},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
              "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
          "type": "structure",
          "members":
{
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                "smithy.api#required": {}
              }
```

```
            },
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                "smithy.api#required": {}
              }
            },
            "DigitalSignatureMethod": {
              "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
              "traits": {
                "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                "smithy.api#required": {}
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "CheckoutMetadata": {
              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Information about constraints.</p>"
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
```

```
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },
            "EntitlementsAllowed":
{
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
              }
            },
            "CheckoutMetadata": {
              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Information about constraints.</p>"
              }
            }
          },
```

```
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Checks out the specified license.</p>\n      <note>\n      <p>If the
account that created the license is the same that is performing the check out, you must\n      specify the account
```

```
as the beneficiary.</p>\n        </note>"
        }
      },
      "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product
 SKU.</p>",
              "smithy.api#required": {}
            }
          },
          "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
              "smithy.api#documentation": "<p>Checkout type.</p>",
              "smithy.api#required": {}
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>",

      "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License beneficiary.</p>"
```

```
        }
      },
      "NodeId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Node ID.</p>"
        }
      }
    },
    "traits": {

   "smithy.api#input": {}
    }
  },
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
      "CheckoutType": {
        "target": "com.amazonaws.licensemanager#CheckoutType",
        "traits": {
          "smithy.api#documentation": "<p>Checkout type.</p>"
        }
      },
      "LicenseConsumptionToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License consumption token.</p>"
        }
      },
      "EntitlementsAllowed": {
        "target": "com.amazonaws.licensemanager#EntitlementDataList",
        "traits": {
          "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
        }
      },
       "SignedToken": {
        "target": "com.amazonaws.licensemanager#SignedToken",
        "traits": {
          "smithy.api#documentation": "<p>Signed token.</p>"
        }
      },
      "NodeId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Node ID.</p>"
        }
      },
      "IssuedAt": {
```

```
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
          "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
           }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
```

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
      }
    },
    "com.amazonaws.licensemanager#ConflictException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "ConflictException",
          "httpResponseCode":
409
        },
        "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 409
      }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
          }
        },
        "ConsumedLicenses": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
          }
        }
      },
```

```
"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
               "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n          entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
         }
      },
      "com.amazonaws.licensemanager#CreateGrantRequest": {
         "type": "structure",
         "members": {
            "ClientToken": {
               "target": "com.amazonaws.licensemanager#ClientToken",
               "traits": {
                  "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                  "smithy.api#required": {}
               }
            },
            "GrantName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Grant name.</p>",
                  "smithy.api#required": {}

   }
            },
            "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN):</p>\n <ul>\n <li>\n <p>An Amazon Web Services account, which includes only the account specified.</p>\n </li>\n </ul>\n <ul>\n <li>\n <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n </li>\n </ul>\n <ul>\n\n <li>\n <p>An organization, which will include all accounts across your organization.</p>\n </li>\n </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
```

```
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
          },
          "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
              "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
```

```
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#RedirectException"
       },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a license configuration.</p>\n      <p>A license configuration is an abstraction of a customer license agreement that can be\n      consumed and enforced by License Manager. Components include specifications for the license\n      type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n      Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n      license must be associated with a host), and the number of licenses purchased and used.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
          "traits": {
            "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
            }
        },

  "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
```

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
         }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
         "type": "structure",
         "members": {
            "ResourceArn": {

               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                  "smithy.api#required": {}
               }
            },
            "SourceLicenseContext": {
               "target": "com.amazonaws.licensemanager#LicenseConversionContext",
               "traits": {
                  "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                  "smithy.api#required": {}
               }
            },
            "DestinationLicenseContext":
{
               "target": "com.amazonaws.licensemanager#LicenseConversionContext",
               "traits": {
                  "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
```

```
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
      "LicenseConversionTaskId": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

    "traits": {
          "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
       },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
```

```
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
              "smithy.api#required": {}

      }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be generated daily, monthly, or weekly.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
          "LicenseManagerReportGeneratorArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>",
              "smithy.api#required": {}
            }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product
name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region for the license.</p>",
            "smithy.api#required": {}

  }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>License beneficiary.</p>",
              "smithy.api#required": {}
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for workloads with offline\n          usage.</p>",
              "smithy.api#required": {}
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license.</p>"
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
```

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about the license.</p>"
               }
            },
            "Entitlements": {
               "target": "com.amazonaws.licensemanager#EntitlementList",
               "traits": {
                  "smithy.api#documentation": "<p>License entitlements.</p>",
                  "smithy.api#required": {}
               }
            },
            "ConsumptionConfiguration": {
               "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                  "smithy.api#required": {}
               }
            },

   "Status": {
               "target": "com.amazonaws.licensemanager#LicenseStatus",
               "traits": {
                  "smithy.api#documentation": "<p>License status.</p>",
                  "smithy.api#required": {}
               }
            },
            "ClientToken": {
               "target": "com.amazonaws.licensemanager#ClientToken",
               "traits": {
                  "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                  "smithy.api#required": {}
               }
            },
            "SourceVersion": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the license.</p>"
               }
            }
         },
         "traits": {
```

```
"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New version of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output":
{}
      }
    },
    "com.amazonaws.licensemanager#CreateToken": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
```

```
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

      {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n         <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
         }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits":
{
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                  "smithy.api#required": {}
               }
            },
            "RoleArns": {
               "target": "com.amazonaws.licensemanager#ArnList",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
               }
            },
            "ExpirationInDays": {
               "target": "com.amazonaws.licensemanager#Integer",
               "traits": {
                  "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
               }
```

```
        },
        "TokenProperties": {
          "target": "com.amazonaws.licensemanager#MaxSize3StringList",
          "traits": {
            "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",

          "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
```

```
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
```

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            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the
grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
```

```
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

    "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n         <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

```
            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

```
{}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "DeletionDate": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
          "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

      {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
         }
      },
      "com.amazonaws.licensemanager#DeleteTokenRequest": {
         "type": "structure",
         "members": {
            "TokenId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token ID.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
         "type": "structure",
         "members": {},
         "traits": {
            "smithy.api#output": {}

       }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
         "type": "enum",
         "members": {
            "JWT_PS384": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "JWT_PS384"
               }
```

```
            }
          }
        },
        "com.amazonaws.licensemanager#Entitlement": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
              }
            },
            "Value": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
              }
            },
            "MaxCount": {
              "target": "com.amazonaws.licensemanager#Long",
              "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
              }
            },
            "Overage": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
              }
            },
            "Unit": {
              "target": "com.amazonaws.licensemanager#EntitlementUnit",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement unit.</p>",
                "smithy.api#required": {}
              }
            },
            "AllowCheckIn": {
              "target":
"com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
              }
            }
          },
          "traits": {
```

```
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement
data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
```

```
"NONE": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "None"
   }
},
"SECONDS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Seconds"
   }
},
"MICROSECONDS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Microseconds"
   }
},
"MILLISECONDS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Milliseconds"
   }
},
"BYTES": {
   "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Bytes"
   }
},
"KILOBYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Kilobytes"
   }
},
"MEGABYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Megabytes"
   }
},
"GIGABYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Gigabytes"
   }
},
```

```
        "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
```

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

```
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
    {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        },
        "com.amazonaws.licensemanager#EntitlementUnit": {
          "type": "enum",
          "members": {
            "COUNT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count"
              }
            },
            "NONE": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes"
            }
        },
        "BITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits"
            }
        },
        "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {

             "smithy.api#enumValue": "Kilobits"
            }
        },
        "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabits"
            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"
            }
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
```

```
        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

  "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

       "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

```
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>",
            "smithy.api#required": {}

    }
        },
        "DryRun": {
          "target": "com.amazonaws.licensemanager#Boolean",
          "traits": {
            "smithy.api#default": false,
            "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
        },

        "Expiration": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
      "type": "structure",
      "members": {
        "Message": {
```

```
            "target": "com.amazonaws.licensemanager#Message"
          },
          "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
          },
          "smithy.api#documentation":
 "<p>A dependency required to run the API is missing.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 424
        }
      },
      "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
          },
          "Values": {
            "target": "com.amazonaws.licensemanager#FilterValues",
            "traits": {
              "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only
specify one value for the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n        describe operation. Filters can be used
to match a set of resources by specific criteria,\n        such as tags, attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
```

```
        "aws.protocols#awsQueryError": {
          "code": "FilterLimitExceeded",
          "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#FilterList": {
      "type": "list",
       "member": {
        "target": "com.amazonaws.licensemanager#Filter"
      }
    },
    "com.amazonaws.licensemanager#FilterName": {
      "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
      "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
          "smithy.api#xmlName": "item"
        }
      }
    },
    "com.amazonaws.licensemanager#Filters": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
          "smithy.api#xmlName": "item"
        }
      }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
      "type": "operation",
      "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
      },
      "errors": [
```

```
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n         are valid for one hour.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetAccessTokenRequest": {
          "type": "structure",
          "members": {
            "Token": {
              "target": "com.amazonaws.licensemanager#TokenString",
              "traits": {
                "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                "smithy.api#required": {}
              }
            },
            "TokenProperties": {
              "target": "com.amazonaws.licensemanager#MaxSize3StringList",
              "traits": {
                "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
          "type": "structure",
          "members": {
```

```
        "AccessToken": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Temporary access token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetGrant": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"

      },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
         "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Grant version.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
      "Grant": {
        "target": "com.amazonaws.licensemanager#Grant",
        "traits": {
          "smithy.api#documentation": "<p>Grant details.</p>"
        }
      }
    },
    "traits": {

  "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
```

```
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"

        },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
            }
          },
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
             }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
        }
    },
    "LicenseRules": {
        "target": "com.amazonaws.licensemanager#StringList",
        "traits": {
            "smithy.api#documentation": "<p>License rules.</p>"
        }
    },
    "LicenseCount": {
        "target": "com.amazonaws.licensemanager#BoxLong",

       "traits": {
            "smithy.api#documentation": "<p>Number of available licenses.</p>"
        }
    },
    "LicenseCountHardLimit": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
            "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
        }
    },
    "ConsumedLicenses": {
        "target": "com.amazonaws.licensemanager#BoxLong",
        "traits": {
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
        }

},
    "OwnerAccountId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
        }
    },
    "ConsumedLicenseSummaryList": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
        "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
        }
    },
```

```
            "ManagedResourceSummaryList": {
               "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
               "traits": {
                  "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                  "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
               }
            },
            "ProductInformationList": {
               "target": "com.amazonaws.licensemanager#ProductInformationList",
               "traits": {
                  "smithy.api#documentation": "<p>Product information.</p>"
               }
            },
            "AutomatedDiscoveryInformation": {
               "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
               "traits": {
                  "smithy.api#documentation": "<p>Automated discovery information.</p>"
               }
            },
            "DisassociateWhenNotFound": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

  "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
         }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
         "type": "structure",
         "members": {
            "LicenseConversionTaskId": {
               "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
               "traits": {
                  "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
       },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
         "type": "structure",
         "members": {
            "LicenseConversionTaskId": {
               "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
               "traits": {
                  "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
               }
            },
            "ResourceArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
```

```
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
          },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
          }
        },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
              "smithy.api#required":
{}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
          "ReportGenerator": {
            "target": "com.amazonaws.licensemanager#ReportGenerator",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {

 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
```

```
  },
  "com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
      "License": {
        "target": "com.amazonaws.licensemanager#License",
        "traits": {
          "smithy.api#documentation": "<p>License details.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },

"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {

"target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"

 }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

```
"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                 }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
```

```
"<p>Describes a grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Grant"
        }
      },
      "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
          "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
          },
          "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

          }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
```

```
            },
            "PENDING_DELETE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "PENDING_DELETE"
               }
            },
            "DISABLED": {
               "target": "smithy.api#Unit",
               "traits":
{
                  "smithy.api#enumValue": "DISABLED"
               }
            },
            "WORKFLOW_COMPLETED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "WORKFLOW_COMPLETED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
               }
            },
            "LicenseName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License name.</p>"
               }

   },
            "ProductName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product name.</p>"
               }
            },
            "ProductSKU": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#IssuerDetails",
        "traits": {
          "smithy.api#documentation": "<p>Granted license issuer.</p>"
        }
      },
      "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

       }
      },
      "Status": {
        "target": "com.amazonaws.licensemanager#LicenseStatus",
        "traits": {
          "smithy.api#documentation": "<p>Granted license status.</p>"
        }
      },
      "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
          "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
        }
      },
      "Beneficiary": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
        }
      },
      "Entitlements": {
        "target": "com.amazonaws.licensemanager#EntitlementList",
         "traits": {
          "smithy.api#documentation": "<p>License entitlements.</p>"
        }
      },
      "ConsumptionConfiguration": {
        "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
        "traits": {
          "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
        }
      },
      "LicenseMetadata": {
        "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
      },
      "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
      },
      "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
      },
      "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InvalidParameterValueProvided",
          "httpResponseCode": 400
        },
        "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InvalidResourceState",
          "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the filter.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "Condition": {
          "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
          "traits": {
            "smithy.api#documentation": "<p>Condition of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Value": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Value of the filter.</p>"
          }
        }

},
      "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
      }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
      "type": "enum",
      "members": {
        "EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EQUALS"
          }
        },
        "NOT_EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "NOT_EQUALS"
          }
        },
        "BEGINS_WITH": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "BEGINS_WITH"
          }
        },
        "CONTAINS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CONTAINS"
          }
        }
      }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#InventoryFilter"
      }
    },
    "com.amazonaws.licensemanager#Issuer": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Issuer name.</p>",
            "smithy.api#required": {}
          }
        },
        "SignKey": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
      }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Issuer name.</p>"
          }
        },
        "SignKey": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
          }
        },
        "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

           "smithy.api#documentation": "<p>License name.</p>"
            }
          },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>"
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>"
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
              "smithy.api#documentation": "<p>License issuer.</p>"
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {

   "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>"
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>License metadata.</p>"
          }
        },
        "CreateTime": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>License
 creation time.</p>"
          }
        },
```

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
          },
          "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
          },
          "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
          },
          "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

         }
          },
          "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
          },
          "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
            }
        },
        "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        },
        "AutomatedDiscoveryInformation": {

            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a host), and the number of licenses purchased and used.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
      "type": "structure",
      "members": {
        "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>"
            }
```

```
            },
            "AssociationTime": {
               "target": "com.amazonaws.licensemanager#DateTime",
               "traits": {

      "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
               }
            },
            "AmiAssociationScope": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
         "type": "enum",
         "members":
 {
            "AVAILABLE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "AVAILABLE"
               }
            },
            "DISABLED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "DISABLED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
         "type": "structure",
         "members": {
            "ResourceArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
          },

      "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionContext": {

    "type": "structure",
        "members": {
          "UsageOperation": {
            "target": "com.amazonaws.licensemanager#UsageOperation",
            "traits": {
              "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
        "type": "string",
        "traits": {

       "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
      "type": "enum",
      "members": {
        "IN_PROGRESS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "IN_PROGRESS"
          }
        },
        "SUCCEEDED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "SUCCEEDED"
          }
        },
        "FAILED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "FAILED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
      }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
      "type": "enum",
      "members": {
        "VCPU": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "vCPU"
          }
```

```
        },
        "INSTANCE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Instance"
          }
        },
        "CORE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Core"
          }
        },
        "SOCKET": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "Socket"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "enum",
      "members": {
        "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#License"
      }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {

      "type": "structure",
      "members": {
```

```
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
              }
            },
            "ResourceType": {
              "target": "com.amazonaws.licensemanager#ResourceType",
              "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
              }
            },
            "ErrorMessage": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
              }
            },
            "FailureTime": {
              "target": "com.amazonaws.licensemanager#DateTime",
              "traits": {

      "smithy.api#documentation": "<p>Failure time.</p>"
              }
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {

              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
```

```
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
              }
            },
            "AmiAssociationScope": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecifications": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
          }
        },
        "com.amazonaws.licensemanager#LicenseStatus": {
          "type": "enum",
          "members": {
            "AVAILABLE": {
```

```
            "target": "smithy.api#Unit",

        "traits": {
            "smithy.api#enumValue": "AVAILABLE"
          }
        },
        "PENDING_AVAILABLE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_AVAILABLE"
          }
        },
        "DEACTIVATED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DEACTIVATED"
          }
        },
        "SUSPENDED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "SUSPENDED"
          }
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
  },
  "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
```

```
            "EntitlementUsages": {
                "target": "com.amazonaws.licensemanager#EntitlementUsageList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlement usages.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

        }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "LicenseUsageFailure",
                "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
 configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
 the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

```
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
```

```
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                    <code>GranteePrincipalARN</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
```

```
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",

    "traits": {
            "smithy.api#documentation": "<p>Distributed grant details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
      },
      "errors": [
        {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
      }
```

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    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
      },

   "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArns": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
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                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurations": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurations",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",

             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
```

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    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
```

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            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
          "type": "structure",
          "members": {
            "LicenseConversionTasks": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target":
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"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
         }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
         "type": "structure",
         "members": {
            "Filters": {
               "target": "com.amazonaws.licensemanager#FilterList",
               "traits": {
                  "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n          <li>\n            <p>\n              <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n        </ul>"
               }
            },
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            },
            "MaxResults": {
               "target": "com.amazonaws.licensemanager#MaxSize100",
               "traits":
{
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
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            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

        "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

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            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
               "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
```

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      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

     "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
```

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for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
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            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while specifying the\n          recipient as this Amazon Web Services account, your organization, or an organizational unit\n          (OU) to which this member account belongs.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
```

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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
          "traits": {
            "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>ProductSKU</code>\n          </p>\n
      </li>\n        <li>\n          <p>\n            <code>LicenseIssuerName</code>\n          </p>\n
</li>\n        <li>\n          <p>\n            <code>LicenseArn</code>\n          </p>\n        </li>\n
<li>\n          <p>\n            <code>GrantStatus</code>\n          </p>\n        </li>\n        <li>\n
<p>\n
      <code>GranterAccountId</code>\n          </p>\n        </li>\n      </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
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        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
    "type": "structure",
    "members": {
        "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
                "smithy.api#documentation": "<p>Received grant details.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n
            </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#GrantedLicenseList",
                 "traits": {
                    "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
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                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
          "type": "structure",
          "members": {
            "LicenseArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
              }
            },

           "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>Status</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>IssuerName</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Beneficiary</code>\n            </p>\n          </li>\n        </ul>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
               "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#MaxSize100",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
          "type": "structure",
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```
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
         "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
          "type": "structure",
          "members": {
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
               "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#InventoryFilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n       are supported:</p>\n       <ul>\n       <li>\n       <p>\n       <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n       Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
         </li>\n       <li>\n       <p>\n       <code>application_name</code> - The name of the
application. \n       Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
  </li>\n       <li>\n       <p>\n       <code>license_included</code> - The type of license included. \n
         Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n       Possible values
are <code>sql-server-enterprise</code> | \n       <code>sql-server-standard</code> | \n       <code>sql-
server-web</code> |  \n       <code>windows-server-datacenter</code>.</p>\n       </li>\n       <li>\n
  <p>\n       <code>platform</code> - The platform of the resource.\n       Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n       </li>\n       <li>\n       <p>\n
       <code>resource_id</code> - The ID of the resource. \n       Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n       </li>\n       <li>\n       <p>\n
    <code>tag:<key></code> - The key/value combination of a tag assigned \n       to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n       <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n       </li>\n       </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
```

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    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

      "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
            "TokenIds": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

                  "smithy.api#documentation": "<p>Token IDs.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n          <li>\n          <p>\n          <code>LicenseArns</code>\n          </p>\n          </li>\n
</ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
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            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
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            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n            consumption details by resource at a selected point in time. Use this action to audit the\n            current license consumption for any license inventory and configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n            are supported:</p>\n            <ul>\n              <li>\n                <p>\n                  <code>resourceArn</code> - The ARN of the license configuration resource.\n                  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n              </li>\n              <li>\n                <p>\n                  <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n              </li>\n              <li>\n                <p>\n                  <code>resourceAccount</code> - The ID of the account that owns the resource. \n                  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n              </li>\n            </ul>"
              }
            }
```

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        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#Location": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#Long": {
        "type": "long"
      },
      "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
          "ResourceType":
{
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
          },
          "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
          }
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    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
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            "traits": {
              "smithy.api#documentation": "<p>The value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }
      },
      "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Metadata"
        }
      },
      "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n          Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n          <code>Status</code> parameter.</p>\n          <ul>\n            <li>\n              <p>As a license administrator, you can optionally specify an\n                <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n            </li>\n            <li>\n              <p>As a grantor, you can optionally specify an\n                <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n                account in your organization.</p>\n            </li>\n            <li>\n              <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n                <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n                are activating the grant.</p>\n            </li>\n          </ul>\n          <dl>\n            <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n            <dd>\n              <p>Use this value to activate a grant without replacing any member accounts\n                active grants for the same product.</p>\n            </dd>\n            <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n            <dd>\n              <p>Use this value to activate a
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grant and disable other active grants in any\n                member accounts
 for the same product. This action will also replace their\n                previously activated grants with this activated
grant.</p>\n            </dd>\n        </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,
such as activation\n        override behavior. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in
License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation":
 "<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

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                "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterList": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
            "traits": {
                "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n        <p>The following filters and are supported when
the resource type \n        is <code>SSM_MANAGED</code>:</p>\n
        <ul>\n            <li>\n                <p>\n                    <code>Application Name</code> - The name of the
application.\n                    Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                    <code>Application Publisher</code> - The publisher of the application.\n                    Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>Application Version</code> - The version of the application.\n                    Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>Platform
Name</code> - The name of the platform.\n                    Logical operator is <code>EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                    <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
        </li>\n            <li>\n                <p>\n                    <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n                    </p>\n            </li>\n            <li>\n
<p>\n                    <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n                    Logical operator is <code>NOT_EQUALS</code>.</p>\n            </li>\n
<li>\n                <p>\n                    <code>License Included</code> - The type of license included.\n                    Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n                    Possible values are:
<code>sql-server-enterprise</code> | \n                    <code>sql-server-standard</code> | \n                    <code>sql-server-
web</code> |  \n                    <code>windows-server-datacenter</code>.</p>\n            </li>\n        </ul>\n
<p>The following filters and logical operators are supported when the resource type\n        is
<code>RDS</code>:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>Engine Edition</code> -
The edition of the database engine.\n                    Logical operator is <code>EQUALS</code>.\n                    Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>License Pack</code> - The license
pack.\n                    Logical operator is <code>EQUALS</code>.\n                    Possible values are: <code>data
guard</code> | \n                    <code>diagnostic pack sqlt</code> | \n
                    <code>tuning pack sqlt</code> | \n                    <code>ols</code> | \n                    <code>olap</code>.</p>\n
    </li>\n        </ul>",
                "smithy.api#required": {}
            }
        }
    },
```

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

```
            "MaxTimeToLiveInMinutes": {
               "target": "com.amazonaws.licensemanager#BoxInteger",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
         }
      },
      "com.amazonaws.licensemanager#RateLimitExceededException": {
         "type": "structure",
         "members": {
            "Message": {
               "target": "com.amazonaws.licensemanager#Message"
            }
         },
         "traits": {
             "aws.protocols#awsQueryError": {
               "code": "RateLimitExceeded",
               "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
         }
      },
      "com.amazonaws.licensemanager#ReceivedMetadata": {
         "type": "structure",
         "members": {
            "ReceivedStatus": {
               "target": "com.amazonaws.licensemanager#ReceivedStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Received status.</p>"
               }
            },
            "ReceivedStatusReason": {
               "target": "com.amazonaws.licensemanager#StatusReasonMessage",
               "traits": {
                  "smithy.api#documentation": "<p>Received
 status reason.</p>"
               }
            },
            "AllowedOperations": {
               "target": "com.amazonaws.licensemanager#AllowedOperationList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
          "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
          },
          "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
```

```
        },
        "DISABLED": {
          "target": "smithy.api#Unit",
           "traits": {
             "smithy.api#enumValue": "DISABLED"
          }
        },
        "WORKFLOW_COMPLETED": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "WORKFLOW_COMPLETED"
          }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
          "target": "com.amazonaws.licensemanager#Location",
          "traits": {
             "smithy.api#httpHeader": "Location"
          }
        },
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
         "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#RejectGrantRequest": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}

  }
        },
        "com.amazonaws.licensemanager#RejectGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Weekly"
            }
          },
          "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Monthly"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {
          "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

```
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
        "members": {
            "value": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Number of times within the frequency period that a report is generated.  \n         The only supported value is <code>1</code>.</p>"
                }
            },
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",

              "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
            "DAY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DAY"
                }
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
```

```
            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
                }
            },
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
                }
            },
            "LastRunStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
                }
```

```
            },
            "LastRunFailureReason":
 {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
               }
            },
            "LastReportGenerationTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
               }
            },
            "ReportCreatorAccount": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
               }
            },
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }
```

```
}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
```

```
            "ResourceId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the resource.</p>"
                }
            },
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits":
{
                    "smithy.api#documentation": "<p>Type of resource.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
                }
            },
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
```

```
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
   },
   "traits": {
      "aws.protocols#awsQueryError": {
         "code": "ResourceLimitExceeded",

       "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
   }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
   },
   "traits": {
      "aws.protocols#awsQueryError": {
         "code": "InvalidResource.NotFound",
         "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
   }
},
"com.amazonaws.licensemanager#ResourceType": {
   "type": "enum",
    "members": {
      "EC2_INSTANCE": {
         "target": "smithy.api#Unit",
         "traits": {
            "smithy.api#enumValue": "EC2_INSTANCE"
         }
      },
      "EC2_HOST": {
         "target": "smithy.api#Unit",
         "traits": {
```

```
                "smithy.api#enumValue": "EC2_HOST"
              }
            },
            "EC2_AMI": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "EC2_AMI"
              }
            },
            "RDS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "RDS"
              }
            },
            "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
              "target": "smithy.api#Unit",
              "traits": {
                 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#S3Location": {
          "type": "structure",
          "members": {
            "bucket": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
              }
            },
            "keyPrefix": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
          }
         },
        "com.amazonaws.licensemanager#ServerInternalException": {
          "type": "structure",
          "members": {
            "Message": {
```

```
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InternalError",
            "httpResponseCode": 500
          },
          "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
          "smithy.api#error": "server",
          "smithy.api#httpError": 500
        }
      },
      "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 4096
          }
        }
      },
      "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
          "smithy.api#length": {
            "min": 0,
            "max": 400
          },
          "smithy.api#pattern": "^[\\s\\S]+$"
        }
      },
      "com.amazonaws.licensemanager#String": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
          "Key": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Tag key.</p>"
```

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

```
            "TokenType": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
              }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "ExpirationTime": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
              }
            },
            "TokenProperties": {
              "target": "com.amazonaws.licensemanager#MaxSize3StringList",
              "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller.</p>"
              }
            },
            "RoleArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
              }
            }
          },
          "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
          }
        },
        "com.amazonaws.licensemanager#TokenList": {
          "type": "list",
```

```
      "member": {
        "target": "com.amazonaws.licensemanager#TokenData"
      }
    },
    "com.amazonaws.licensemanager#TokenString": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 4096
        },
        "smithy.api#pattern": "^\\S+$"
      }
    },
    "com.amazonaws.licensemanager#TokenType": {
      "type": "enum",
      "members": {
        "REFRESH_TOKEN": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "REFRESH_TOKEN"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#UntagResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UntagResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UntagResourceResponse"
      },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {},
```

```
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
       }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
            "smithy.api#required": {}
          }
        },
```

```
        "LicenseConfigurationStatus": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
          "traits": {
            "smithy.api#documentation": "<p>New status of the license configuration.</p>"
          }
        },
        "LicenseRules": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {

 "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
 configuration is licenseAffinityToHost.</p>"
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
          }
        },
        "LicenseCountHardLimit": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
          }
        },
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New name
of the license configuration.</p>"
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New description of the license configuration.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>New product information.</p>"
          }
        },
        "DisassociateWhenNotFound": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n            <li>\n                <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n            </li>\n            <li>\n                <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

```
            "traits":
{
                "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n         <p>You can update the license specifications of AMIs, instances, and
hosts.\n         You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
              }
            },
            "SnsTopicArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
              }
            },
            "OrganizationConfiguration": {
              "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
              "traits": {
                "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
              }
            },
            "EnableCrossAccountsDiscovery": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
          "type": "structure",
          "members": {},
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
          "type": "string",
          "traits": {
            "smithy.api#length": {
              "min": 0,
              "max": 50
            }
          }
        },
        "com.amazonaws.licensemanager#ValidationException": {
```

```
          "type": "structure",
          "members": {
             "Message": {
                "target": "com.amazonaws.licensemanager#Message"
             }
          },
          "traits": {
             "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
             "smithy.api#httpError": 400
          }
       }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result,
 metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{},
 middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
```

```
 return out, metadata, fmt.Errorf("unknown
transport type %T", in.Request)
}

if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "grafana"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx
= awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}
```

```
for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "grafana"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this
context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("grafana")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx,
v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

return next.HandleSerialize(ctx, in)
}
```

```
func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CreateLicenseInput
 struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
```

```
 // This member
 is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err
 != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:
   "license-manager",
  OperationName: "CreateLicense",
 }
}

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
```

```
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint,
err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports
%v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
```

```
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx
= awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return
 stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
```

```
  Region:       options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:     options.BaseEndpoint,
 },
 }, "ResolveEndpoint", middleware.After)
}
```

1.175 cloudflare-circl 1.3.5

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==========

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1.176 github 55.0.0

1.176.1 Available under license :

```
// Copyright 2013 The go-github AUTHORS. All rights reserved.
//
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package github

import (
 "context"
 "fmt"
 "net/http"
 "testing"

 "github.com/google/go-cmp/cmp"
)

func TestRepositoryLicense_Marshal(t *testing.T) {
 testJSONMarshal(t, &RepositoryLicense{}, "{}")

 rl := &RepositoryLicense{
  Name:        String("n"),
  Path:        String("p"),
  SHA:         String("s"),
  Size:        Int(1),
  URL:         String("u"),
  HTMLURL:     String("h"),
  GitURL:      String("g"),
  DownloadURL: String("d"),
  Type:        String("t"),
  Content:     String("c"),
  Encoding:    String("e"),
  License: &License{
   Key:            String("k"),
   Name:           String("n"),
   URL:            String("u"),
   SPDXID:         String("s"),
   HTMLURL:        String("h"),
   Featured:       Bool(true),
   Description:    String("d"),
   Implementation: String("i"),
```

```
  Permissions:    &[]string{"p"},
  Conditions:
    &[]string{"c"},
  Limitations:    &[]string{"l"},
  Body:           String("b"),
 },
}
want := `{
 "name": "n",
 "path": "p",
 "sha": "s",
 "size": 1,
 "url": "u",
 "html_url": "h",
 "git_url": "g",
 "download_url": "d",
 "type": "t",
 "content": "c",
 "encoding": "e",
 "license": {
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }
}`
 testJSONMarshal(t, rl, want)
}

func TestLicense_Marshal(t *testing.T) {
 testJSONMarshal(t, &License{}, "{}")

 l := &License{
  Key:            String("k"),
  Name:           String("n"),
  URL:            String("u"),
  SPDXID:         String("s"),
  HTMLURL:        String("h"),
  Featured:       Bool(true),
  Description:    String("d"),
```

```
 Implementation: String("i"),
 Permissions:    &[]string{"p"},
 Conditions:
    &[]string{"c"},
 Limitations:    &[]string{"l"},
 Body:           String("b"),
}
want := `{
 "key": "k",
 "name": "n",
 "url": "u",
 "spdx_id": "s",
 "html_url": "h",
 "featured": true,
 "description": "d",
 "implementation": "i",
 "permissions": ["p"],
 "conditions": ["c"],
 "limitations": ["l"],
 "body": "b"
}`
 testJSONMarshal(t, l, want)
}

func TestLicensesService_List(t *testing.T) {
 client, mux, _, teardown := setup()
 defer teardown()

 mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w,
`[{"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}]`)
 })

 ctx := context.Background()
 licenses, _, err := client.Licenses.List(ctx)
 if err != nil {
  t.Errorf("Licenses.List returned error: %v", err)
 }

 want := []*License{{
  Key:      String("mit"),
  Name:     String("MIT"),
  SPDXID:   String("MIT"),
  URL:      String("https://api.github.com/licenses/mit"),
  Featured:
 Bool(true),
 }}
```

```
 if !cmp.Equal(licenses, want) {
  t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
 }

 const methodName = "List"
 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.List(ctx)
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
}

func TestLicensesService_Get(t *testing.T) {
 client, mux, _, teardown := setup()
 defer teardown()

 mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
 })

 ctx := context.Background()
 license, _, err := client.Licenses.Get(ctx, "mit")
 if err != nil {
  t.Errorf("Licenses.Get returned error: %v", err)
 }

 want := &License{Key: String("mit"), Name: String("MIT")}
 if !cmp.Equal(license, want) {
  t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
 }

 const
 methodName = "Get"
 testBadOptions(t, methodName, func() (err error) {
  _, _, err = client.Licenses.Get(ctx, "\n")
  return err
 })

 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.Get(ctx, "mit")
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
```

```
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
 client, _, _, teardown := setup()
 defer teardown()

 ctx := context.Background()
 _, _, err := client.Licenses.Get(ctx, "%")
 testURLParseError(t, err)
}
// Copyright 2013 The go-github AUTHORS. All rights reserved.
//
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// license that can be found in the LICENSE file.

package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/en/rest/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
    *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
```

```
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID        *string   `json:"spdx_id,omitempty"`
 HTMLURL       *string   `json:"html_url,omitempty"`
 Featured      *bool     `json:"featured,omitempty"`
 Description   *string   `json:"description,omitempty"`
 Implementation *string  `json:"implementation,omitempty"`
 Permissions   *[]string `json:"permissions,omitempty"`
 Conditions    *[]string `json:"conditions,omitempty"`
 Limitations   *[]string `json:"limitations,omitempty"`
 Body          *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/rest/licenses/#list-all-licenses
func (s
 *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/rest/licenses#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)
```

```
 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
```

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1.177 aws-aws-sdk-go-v2-service-ecrpublic 1.18.2

1.177.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if
 err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
```

```
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time
at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
```

```
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err
 = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addCheckoutLicenseResolveEndpointMiddleware(stack, options);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
 ServiceID:     ServiceID,
 SigningName:   "license-manager",
 OperationName: "CheckoutLicense",
 }
}

type opCheckoutLicenseResolveEndpointMiddleware
 struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil
 {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
```

```
 k,
 resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme
:= range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
```

```
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme,
_ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addCheckoutLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckoutLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver:
 &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
```

```
  runs-on: ubuntu-latest
  strategy:
    matrix:
      python-version: [3.9]

  steps:
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
{
  "smithy": "2.0",
  "shapes": {
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
           "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {

        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
      },
```

```
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
            }
          },
          "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
            "traits": {
              "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
```

```
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
            "traits": {
              "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
            }
          },
          "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
          "AmiId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
          },
          "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
          },
          "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

        },
          "AccountID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
          },
          "Status": {
            "target": "smithy.api#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The status of the instance.</p>"
            }
        },
        "Region": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
            }
        },
        "UsageOperation": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
            }
        },
        "ProductCode": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
            "traits": {
                "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
            }
        },
        "LastUpdatedTime": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
            }
        },
        "SubscriptionName": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
    "type": "list",
```

```
    "member": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
      "message": {
        "target": "smithy.api#String"
       }
    },
    "traits": {
      "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
      "smithy.api#error": "server"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
      },
      {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
      }
    ],

  "traits": {
      "aws.api#service": {
        "sdkId": "License Manager Linux Subscriptions",
        "arnNamespace": "license-manager-linux-subscriptions",
        "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
      },
      "aws.auth#sigv4": {
        "name": "license-manager-linux-subscriptions"
      },
      "aws.protocols#restJson1": {},
      "smithy.api#cors": {
        "additionalAllowedHeaders": [
          "*",
          "content-type",
```

```
                "x-amz-content-sha256",
                "x-amz-user-agent",
                "x-amzn-platform-id",
                "x-amzn-trace-id",
                "content-length",
                "x-api-key",
                "authorization",
                "x-amz-date",

 "x-amz-security-token",
                "Access-Control-Allow-Headers",
                "Access-Control-Allow-Methods",
                "Access-Control-Allow-Origin"
              ],
              "additionalExposedHeaders": [
                "x-amzn-errortype",
                "x-amzn-requestid",
                "x-amzn-trace-id"
              ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running\n      Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager Linux Subscriptions",
            "smithy.rules#endpointRuleSet": {
              "version": "1.0",
              "parameters": {
                "Region": {
                  "builtIn": "AWS::Region",
                  "required": false,
                  "documentation": "The
 AWS region used to dispatch the request.",
                  "type": "String"
                },
                "UseDualStack": {
                  "builtIn": "AWS::UseDualStack",
                  "required": true,
                  "default": false,
                  "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                  "type": "Boolean"
                },
                "UseFIPS": {
                  "builtIn": "AWS::UseFIPS",
                  "required": true,
                  "default": false,
                  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
```

```
 "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {

          "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },
                    true
                  ]
                }
              ],
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [],
              "type": "tree",
              "rules": [
                {

            "conditions": [
                      {
                        "fn": "booleanEquals",
```

```
                        "argv": [
                          {
                            "ref": "UseDualStack"
                          },
                          true
                        ]
                      }
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                  },
                  {
                    "conditions": [],

          "endpoint": {
                      "url": {
                        "ref": "Endpoint"
                      },
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "isSet",

"argv": [
                      {
                        "ref": "Region"
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
```

```
                "fn": "aws.partition",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ],

"assign": "PartitionResult"
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },

          {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {

                   "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
```

```
                                        },
                                        "supportsFIPS"
                                    ]

    }
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                         "supportsDualStack"
                                            ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "type": "tree",
                                    "rules": [
                                        {

                                "conditions": [],
                                            "endpoint": {
                                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                "properties": {},
                                                "headers": {}
                                            },
                                            "type": "endpoint"
                                        }
                                    ]
                                }
                            ]

                        },
                        {
                            "conditions": [],
```

```
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {

        "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,

  {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",

            "rules": [
                  {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                      {
```

```
                                        "conditions": [],
                                        "endpoint": {
                                            "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                            "properties": {},
                                            "headers": {}

                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]

    },
                            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

                     "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
```

```
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],

                            "endpoint": {
                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            },

        {
                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [],
                "endpoint": {
                    "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
```

```
                                "type": "endpoint"
                            }
                        ]
                    }
                ]
            }
        ]
      },
      {
        "conditions": [],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
      }
    ]
  }
 ]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {

"endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
```

```
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
       "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
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        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
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            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint":
{
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {

     "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
```

```
                {
                  "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
                    }
                  },
                  "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                  }
                },
                {
                  "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
                  "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                  },
                  "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                  }
                },
                {
                  "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                    }
                  },
                  "params": {
                    "Region": "us-isob-east-1",

          "UseFIPS": false,
                    "UseDualStack": false
                  }
                },
                {
                  "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://example.com"
                    }
                  },
                  "params": {
                    "Region": "us-east-1",
```

```
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

    "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

     "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
```

```
                    "error": "Invalid Configuration: Missing Region"
                }

            }
                ],
                "version": "1.0"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled LinuxSubscriptionsDiscovery"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled LinuxSubscriptionsDiscovery"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
            "SourceRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "OrganizationIntegration": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
                "traits": {
                    "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
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        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
          "smithy.api#http": {

         "code": 200,
            "method": "POST",
            "uri": "/subscription/ListLinuxSubscriptionInstances"
          },
          "smithy.api#idempotent": {},
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "Instances"
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
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 the name of\n        <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n
match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n        <p>The valid names for this filter
are:</p>\n        <ul>\n        <li>\n        <p>\n        <code>AmiID</code>\n        </p>\n
</li>\n        <li>\n        <p>\n        <code>InstanceID</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>AccountID</code>\n        </p>\n        </li>\n        <li>\n
<p>\n        <code>Status</code>\n        </p>\n        </li>\n        <li>\n        <p>\n
<code>Region</code>\n        </p>\n        </li>\n        <li>\n        <p>\n
<code>UsageOperation</code>\n        </p>\n        </li>\n        <li>\n
    <p>\n        <code>ProductCode</code>\n        </p>\n        </li>\n        <li>\n        <p>\n
     <code>InstanceType</code>\n        </p>\n        </li>\n        </ul>\n        <p>The valid Operators for this
filter are:</p>\n        <ul>\n        <li>\n        <p>\n        <code>contains</code>\n        </p>\n
</li>\n        <li>\n        <p>\n        <code>equals</code>\n        </p>\n        </li>\n        <li>\n
        <p>\n        <code>Notequal</code>\n        </p>\n        </li>\n        </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

      }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>",
              "smithy.api#length": {
                "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
        "type": "structure",
        "members": {
          "Instances": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
            "traits": {
              "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
            }
          },
```

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            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
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        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n       <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>Subscription</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>",
              "smithy.api#length": {

                "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
            "traits": {
              "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
          },
          "NextToken": {
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            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "EQUAL",
              "value": "Equal",
              "documentation": "Equal operator"
            },
            {
              "name": "NOT_EQUAL",
              "value": "NotEqual",
              "documentation": "Not equal operator"
            },
            {
              "name": "CONTAINS",
              "value": "Contains",
              "documentation": "Contains operator"
            }
          ],
          "smithy.api#length": {
            "min": 1,
            "max": 20
          }
        }
      },

    "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "Enabled",
              "value": "Enabled",
              "documentation": "Enabled OrganizationIntegration"
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled OrganizationIntegration"
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            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [

    {
              "name": "InProgress",
              "value": "InProgress",
              "documentation": "InProgress status"
            },
            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
            },
            {
              "name": "Failed",
              "value": "Failed",
              "documentation": "Failed status"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
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            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
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subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
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            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
```

```
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "errors"
```

```
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata
 = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
```

```
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addDisassociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "grafana",
```

```
 OperationName: "DisassociateLicense",
 }
}

type opDisassociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opDisassociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDisassociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to
 not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
   k,
   resolvedEndpoint.Headers.Get(k),
  )
```

```
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "grafana"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err,
&ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "grafana"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx,
*v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
```

```
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("grafana")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

return next.HandleSerialize(ctx, in)
}

func
 addDisassociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opDisassociateLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata
 = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
```

```
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type
 CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{},
middleware.After)
if err != nil {
 return err
}
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addCheckoutBorrowLicenseResolveEndpointMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}

type opCheckoutBorrowLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCheckoutBorrowLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckoutBorrowLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
```

```
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata,
 fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
   k,
   resolvedEndpoint.Headers.Get(k),
  )
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
  var nfe *internalauth.NoAuthenticationSchemesFoundError
  if errors.As(err, &nfe) {
   // if no auth scheme is found, default to sigv4
   signingName := "license-manager"
   signingRegion := m.BuiltInResolver.(*builtInResolver).Region
   ctx = awsmiddleware.SetSigningName(ctx, signingName)
   ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

  }
  var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
  if
```

```
errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the
value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
```

```
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

return
next.HandleSerialize(ctx, in)
}

func addCheckoutBorrowLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckoutBorrowLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
```

```
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out,
 nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addGetLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err !=
 nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}

type opGetLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func
 (*opGetLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opGetLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
```

```
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for
k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
```

```
  var
 signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName ==
 nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

return next.HandleSerialize(ctx, in)
}

func addGetLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opGetLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
```

```
  Region:       options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:
    options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:     options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//   - Beneficiary
//   - ProductSKU
//   - Fingerprint
//   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addListLicensesResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:
     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}

type opListLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opListLicensesResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opListLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}
```

```
m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint
smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the
client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
```

```
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx,
 signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addListLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options)
 error {
 return stack.Serialize.Insert(&opListLicensesResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
```

```
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string
```

```
 // Current version of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addDeleteLicenseResolveEndpointMiddleware(stack,
 options); err != nil {
 return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "DeleteLicense",
 }
}

type
 opDeleteLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opDeleteLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opDeleteLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx,
 params)
 if err != nil {
```

```
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for
_, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
```

```
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case
*internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addDeleteLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opDeleteLicenseResolveEndpointMiddleware{
  EndpointResolver:
 options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
```

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

```
 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addCheckInLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if
 err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckInLicense",
 }
}

type opCheckInLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCheckInLicenseResolveEndpointMiddleware)
 ID() string {
 return "ResolveEndpointV2"
}

func (m *opCheckInLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }
```

```
if m.EndpointResolver == nil {
 return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
}

params := EndpointParameters{}

m.BuiltInResolver.ResolveBuiltIns(&params)

var resolvedEndpoint smithyendpoints.Endpoint
resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
if err != nil {
 return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
}

req.URL = &resolvedEndpoint.URI

for
k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
```

```
  v4Scheme, _ :=
 authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName
 == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addCheckInLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opCheckInLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
```

```
 BuiltInResolver: &builtInResolver{
  Region:       options.Region,
  UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
  UseFIPS:
     options.EndpointOptions.UseFIPSEndpoint,
  Endpoint:     options.BaseEndpoint,
 },
}, "ResolveEndpoint", middleware.After)
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
```

```
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata
 = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if
 err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return
 err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addListReceivedLicensesResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}

type opListReceivedLicensesResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opListReceivedLicensesResolveEndpointMiddleware) ID() string {
```

```
 return "ResolveEndpointV2"
}

func (m *opListReceivedLicensesResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return
 out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
   k,
   resolvedEndpoint.Headers.Get(k),
  )
 }

 authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
 if err != nil {
  var nfe *internalauth.NoAuthenticationSchemesFoundError
  if errors.As(err, &nfe) {
   // if no auth scheme is found, default to sigv4
   signingName := "license-manager"
   signingRegion := m.BuiltInResolver.(*builtInResolver).Region
   ctx = awsmiddleware.SetSigningName(ctx, signingName)
```

```
 ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if
errors.As(err, &ue) {
 return out, metadata, fmt.Errorf(
  "This operation requests signer version(s) %v but the client only supports %v",
  ue.UnsupportedSchemes,
  internalauth.SupportedSchemes,
 )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override
the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
```

```
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

return
next.HandleSerialize(ctx, in)
}

func addListReceivedLicensesResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opListReceivedLicensesResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
{
  "smithy": "2.0",
  "shapes": {
     "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
        "type": "structure",
        "members": {
           "message": {
              "target": "smithy.api#String"
           }
        },
        "traits": {
           "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
           "smithy.api#error": "client"
        }
     },
     "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
        "type": "structure",
        "members": {
           "DirectoryId": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
              }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
```

```
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>The identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
             "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
      },
      "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current state of the\n      resource.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
          }

 },
     "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
```

```
            "Operation": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
                }
            },
            "Value": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>An object that details the registered identity providers product related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
              "smithy.api#required":
{}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
"<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
```

```
            "Username": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                  "smithy.api#required": {}
               }
            },
            "InstanceId": {
               "target": "smithy.api#String",
               "traits":
{
                  "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "Status": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                  "smithy.api#required": {}
               }
            },
            "StatusMessage": {
               "target": "smithy.api#String",
                "traits": {
                  "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
               }
            },
            "Domain": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The domain name of the user.</p>"
               }
            },
            "AssociationDate": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
               }
            },
```

```
            "DisassociationDate": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
               }
            }

   },
         "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
         "type": "structure",
         "members": {
            "message": {
               "target": "smithy.api#String"
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
         "type": "service",

       "version": "2018-05-10",
         "operations": [
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
          ],
          "traits": {
            "aws.api#service": {
              "sdkId": "License Manager User Subscriptions",
              "arnNamespace": "license-manager-user-subscriptions",
              "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
              "name": "license-manager-user-subscriptions"
             },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
              "additionalAllowedHeaders": [
                "*",
                "content-type",
                "x-amz-content-sha256",
                "x-amz-user-agent",
                "x-amzn-platform-id",
                "x-amzn-trace-id",
                "content-length",
                "x-api-key",
                "authorization",
                "x-amz-date",
                "x-amz-security-token",
                "Access-Control-Allow-Headers",
                "Access-Control-Allow-Methods",
```

```
            "Access-Control-Allow-Origin"
          ],
          "additionalExposedHeaders": [
            "x-amzn-errortype",
            "x-amzn-requestid",
            "x-amzn-trace-id"

 ]
        },
        "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager User Subscriptions",
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack
 endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }

      },
          "rules": [
            {
              "conditions": [
```

```
            {
              "fn": "isSet",
              "argv": [
                {
                  "ref": "Endpoint"
                }
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },

                    true
                  ]
                }
              ],
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],

        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [],
              "endpoint": {
                "url": {
                  "ref": "Endpoint"
```

```
                    },
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [

  {
                        "ref": "Region"
                    }
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "aws.partition",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ],
                        "assign": "PartitionResult"
                    }
                ],
                "type": "tree",

"rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            },
```

```
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"

                    },
                    true
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",

"argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                          ]
                        }
                      ]
                    },
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {

          "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },
                              "supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
```

```
                "type": "tree",
                "rules": [
                  {

            "conditions": [],
                        "endpoint": {
                          "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}
                        },
                        "type": "endpoint"
                      }
                    ]
                  },
                  {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                     "type": "error"
                  }
                ]
              },
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  }
                ],
                "type": "tree",

          "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",
                            "argv": [
                              {
```

```
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"

                                ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}

            },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "FIPS is enabled but this partition does not support FIPS",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
```

```
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

                    "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {

                  "conditions": [],
                  "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                  },
                  "type": "endpoint"
                }
              ]
            },
            {
              "conditions": [],
              "error": "DualStack is enabled but this partition does
 not support DualStack",
              "type": "error"
            }
          ]
        },
        {
          "conditions": [],
          "endpoint": {
            "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
            "properties": {},
            "headers": {}
          },
          "type": "endpoint"
```

```
                        }
                      ]
                    }
                  ]
                },
                {
                  "conditions":
[],
                  "error": "Invalid Configuration: Missing Region",
                  "type": "error"
                }
              ]
            },
            "smithy.rules#endpointTests": {
              "testCases": [
                {
                  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                    }
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                  }
                },
                {
                  "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                    }
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                  }
                },
                {
                  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                    }
```

```
        },

      "params": {
          "Region": "us-east-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
          }
        },
        "params": {
          "Region": "cn-north-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
          }
        },

    "params": {
          "Region": "cn-north-1",
          "UseFIPS": true,
          "UseDualStack": false
```

```
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },

    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
```

```
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
            }
          },

    "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
```

```
                "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
                "expect":
{
                  "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                  }
                },
                "params": {
                  "Region": "us-iso-east-1",
                  "UseFIPS": true,
                  "UseDualStack": false
                }
              },
              {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                  "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                  "Region": "us-iso-east-1",
                  "UseFIPS": false,
                  "UseDualStack":
true
                }
              },
              {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
                  }
                },
                "params": {
                  "Region": "us-iso-east-1",
                  "UseFIPS": false,
                  "UseDualStack": false
                }
              },
              {
                "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                  "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
                },
                "params": {
                  "Region": "us-isob-east-1",
                  "UseFIPS": true,
                  "UseDualStack": true
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```
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
```

```
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
          "expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips enabled and dualstack disabled",
          "expect": {
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
            "Region": "us-east-1",
             "UseFIPS": true,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "For custom endpoint with fips disabled and dualstack enabled",
          "expect": {
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true,
            "Endpoint": "https://example.com"
          }
        },
        {
          "documentation": "Missing region",
          "expect": {
```

```
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
    }
  ],
  "traits": {
    "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
    "smithy.api#http": {
      "code": 200,
      "method": "POST",
      "uri": "/identity-provider/ListIdentityProviders"
    },
    "smithy.api#paginated":
```

```
{
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "IdentityProviderSummaries"
          }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
      "type": "structure",
      "members": {
        "MaxResults": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
      "type": "structure",
      "members": {
        "IdentityProviderSummaries": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
            "smithy.api#required": {}
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
```

```
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
      "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/instance/ListInstances"
      },
      "smithy.api#paginated": {
        "inputToken": "NextToken",
        "outputToken": "NextToken",
        "pageSize": "MaxResults",
        "items": "InstanceSummaries"
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
    "type": "structure",
    "members": {
      "MaxResults": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type":
 "structure",
        "members": {
          "InstanceSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
         },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "ProductUserSummaries"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
          "type": "structure",
          "members": {
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
```

```
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
```

```
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
```

```
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
      "type": "structure",
      "members": {

      "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }

    },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of a product for a user.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusMessage": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
          }
        },
```

```
            "Domain": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The domain name of the user.</p>"
               }
            },
            "SubscriptionStartDate": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
               }
            },
            "SubscriptionEndDate": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The end date of a subscription.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
          },
         "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary":
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
```

```
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
"<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n         <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n         hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n         monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n         </note>",
            "smithy.api#http": {
               "code": 200,
               "method": "POST",
               "uri": "/user/StartProductSubscription"
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
         "type": "structure",
         "members": {
            "Username": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
```

```
            },
            "Product": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
               }
            },
            "Domain": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The domain name of the user.</p>"
               }
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
         "type": "structure",
          "members": {
            "ProductUserSummary": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
               "traits": {
                  "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                  "smithy.api#required": {}
               }
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

   },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
             "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/StopProductSubscription"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required":
{}
              }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
```

```
            "Domain": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The domain name of the user.</p>"
               }
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
         "type": "structure",
         "members": {
            "ProductUserSummary": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
               "traits": {
                  "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                  "smithy.api#required": {}
               }
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
         "type": "list",
         "member": {
            "target": "smithy.api#String"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
         "type": "string",
         "traits": {
            "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
         "type": "structure",
         "members": {
            "message": {

             "target": "smithy.api#String"
            }
         },
         "traits": {
```

```
            "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
            "smithy.api#error": "client"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#required": {}
              }
            },
            "Product": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "UpdateSettings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
            "traits": {
              "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n          <li>\n            <p>Subnets which you want to add to provision VPC endpoints.</p>\n          </li>\n
        <li>\n            <p>Subnets which you want to remove the VPC endpoints from.</p>\n          </li>\n
<li>\n            <p>Security group ID which permits traffic to the VPC endpoints.</p>\n          </li>\n        </ul>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
          "AddSubnets": {

           "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
              "smithy.api#required": {}
            }
          },
          "RemoveSubnets": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
              "smithy.api#required": {}
            }
```

```
            },
            "SecurityGroupId": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
               "traits": {
                  "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
         "type": "structure",
         "members": {
            "message": {
               "target": "smithy.api#String"
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
         }
      }
   }
}
{
   "smithy": "2.0",
   "metadata": {
      "suppressions": [
         {
            "id": "HttpMethodSemantics",
            "namespace": "*"
         },
         {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
         },
         {
            "id": "PaginatedTrait",
            "namespace": "*"
         },
         {
            "id": "HttpHeaderTrait",
            "namespace": "*"
```

```
      },
      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
    "type": "service",
    "version": "2018-08-01",
    "operations": [
      {
        "target": "com.amazonaws.licensemanager#AcceptGrant"
      },

 {
        "target": "com.amazonaws.licensemanager#CheckInLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrant"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
       },
      {
```

```
            "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
        },
        {
            "target": "com.amazonaws.licensemanager#CreateToken"
        },
        {
            "target": "com.amazonaws.licensemanager#DeleteGrant"
        },
        {
            "target": "com.amazonaws.licensemanager#DeleteLicense"
        },
        {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
        },
        {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
        },
        {
            "target": "com.amazonaws.licensemanager#DeleteToken"
        },
        {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

    },
        {
            "target": "com.amazonaws.licensemanager#GetAccessToken"
        },
        {
            "target": "com.amazonaws.licensemanager#GetGrant"
        },
        {
            "target": "com.amazonaws.licensemanager#GetLicense"
        },
        {
            "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
        },
        {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
        },
        {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
        },
        {
            "target": "com.amazonaws.licensemanager#GetLicenseUsage"
        },
        {
            "target": "com.amazonaws.licensemanager#GetServiceSettings"
        },
```

```
{
   "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
 },
{
   "target": "com.amazonaws.licensemanager#ListDistributedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
   "target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
   "target": "com.amazonaws.licensemanager#ListTokens"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
             },
            {
               "target": "com.amazonaws.licensemanager#RejectGrant"
            },
            {
               "target": "com.amazonaws.licensemanager#TagResource"
            },
            {
               "target": "com.amazonaws.licensemanager#UntagResource"
            },
            {
               "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
            },
            {
               "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
            },
            {
               "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
            },
            {
               "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
            }
         ],
         "traits": {
            "aws.api#service": {
                "sdkId": "License Manager",
               "arnNamespace": "license-manager",
               "cloudFormationName": "LicenseManager",
               "cloudTrailEventSource": "licensemanager.amazonaws.com",
               "endpointPrefix": "license-manager"
            },
            "aws.auth#sigv4": {
               "name": "license-manager"
            },
            "aws.protocols#awsJson1_1": {},
            "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
            "smithy.api#title": "AWS License Manager",
            "smithy.api#xmlNamespace": {
               "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
            },
            "smithy.rules#endpointRuleSet": {
               "version": "1.0",
               "parameters": {
```

```
        "Region": {
          "builtIn": "AWS::Region",
          "required": false,
          "documentation": "The AWS region used to dispatch the request.",
          "type": "String"
        },
        "UseDualStack": {
          "builtIn": "AWS::UseDualStack",
          "required": true,
          "default": false,
          "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
          "type": "Boolean"
        },
        "UseFIPS": {
          "builtIn": "AWS::UseFIPS",
          "required": true,
          "default": false,
          "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
          "type": "Boolean"
        },
        "Endpoint": {
          "builtIn": "SDK::Endpoint",
          "required": false,
          "documentation": "Override the endpoint used to send this request",
          "type": "String"
        }
      },
      "rules": [
        {
          "conditions": [
            {
              "fn": "isSet",
              "argv": [
                {
                  "ref": "Endpoint"
                }
              ]

            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
```

```
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
              },
              {

"conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },
              {
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                   },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
```

```
                }
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "aws.partition",
                    "argv": [
                        {
                            "ref": "Region"
                        }
                    ],
                    "assign": "PartitionResult"
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref":
"UseFIPS"
                                },
                                true
                            ]
                        },
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
```

```
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]

                }
                ]
              },
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },

  "supportsDualStack"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                  "properties": {},
                  "headers": {}

              },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [],
```

```
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",

             "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,

          {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",
                "rules": [

          {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
```

```
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "FIPS is enabled but this
partition does not support FIPS",
            "type": "error"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "type": "tree",
     "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },

    "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "type": "tree",
```

```
                                "rules": [
                                    {
                                        "conditions": [],
                                        "endpoint": {
                                            "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                            "properties": {},
                                            "headers": {}

                                    },
                                        "type": "endpoint"
                                    }
                                ]
                            },
                            {
                                "conditions": [],
                                "error": "DualStack is enabled but this partition does not support DualStack",
                                "type": "error"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                             "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
    }
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint":
```

```
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "af-south-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-northeast-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.ap-northeast-2.amazonaws.com"
                }
            },
            "params": {
                "Region": "ap-northeast-2",
                "UseFIPS": false,
                "UseDualStack": false
            }
```

```
    },
    {
      "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-3.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
      }

},
    {
      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
      },
      "params": {
        "Region": "ap-southeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
```

```
      },
      "params": {
        "Region": "ap-southeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-3.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-southeast-3",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ca-central-1.amazonaws.com"
        }
      },

     "params": {
        "Region": "ca-central-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-central-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-central-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
```

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        {
          "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-north-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region":
"eu-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
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```
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-3",
        "UseFIPS": false,

"UseDualStack": false
      }
    },
    {
      "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.me-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "me-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.sa-east-1.amazonaws.com"
         }
      },
      "params": {
        "Region": "sa-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
```

```
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }

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    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-east-2.amazonaws.com"
        }

     },
      "params": {
        "Region": "us-east-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-east-2.amazonaws.com"
        }
      },
      "params": {
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            "Region": "us-east-2",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-west-1.amazonaws.com"
            }
          },
          "params": {

      "Region": "us-west-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-west-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
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"expect": {
                    "endpoint": {
                      "url": "https://license-manager-fips.us-west-2.amazonaws.com"
                    }
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                  "params": {
                    "Region": "us-west-2",
                    "UseFIPS": true,
                    "UseDualStack": false
                  }
                },
                {
                  "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://license-manager-fips.us-east-1.api.aws"
                    }
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,

                    "UseDualStack": true
                  }
                },
                {
                  "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://license-manager.us-east-1.api.aws"
                    }
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                  }
                },
                {
                  "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
                  "expect": {
                    "endpoint": {
                      "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
                    }
                  },
                  "params": {
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            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-northwest-1",
            "UseFIPS": false,
            "UseDualStack": false

}
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
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            "endpoint": {
              "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },

    {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
           },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
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            }
        },
        {
            "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-west-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-gov-east-1.api.aws"
                }
            },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
```

```
            "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
          }
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": true,
           "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
          }
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "error": "DualStack is enabled
but this partition does not support DualStack"
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
```

```
            "endpoint": {
              "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
            }
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },

      {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },

    "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
```

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                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                      "url": "https://example.com"
                    }
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                  "expect": {
                    "endpoint": {
                      "url": "https://example.com"
                    }
                  },
                  "params": {
                    "UseFIPS": false,

      "UseDualStack": false,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                  "expect": {
                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                  "expect": {
                    "error":
 "Invalid Configuration: Dualstack and custom endpoint are not supported"
                  },
                  "params": {
```

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                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "Missing region",
                  "expect": {
                    "error": "Invalid Configuration: Missing Region"
                  }
                }
              ],
              "version": "1.0"
            }
          }
        },
        "com.amazonaws.licensemanager#AcceptGrant": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
          "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
```

```
    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Grant
ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
```

```
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
      "type": "enum",
      "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
          }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

   "type": "enum",
      "members": {
        "CREATE_GRANT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CreateGrant"
          }
        },
        "CHECKOUT_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
                "smithy.api#enumValue": "CheckoutLicense"
              }
            },
            "CHECKOUT_BORROW_LICENSE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "CheckoutBorrowLicense"
              }
            },
            "CHECK_IN_LICENSE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "CheckInLicense"
              }
            },
            "EXTEND_CONSUMPTION_LICENSE":
{
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "ExtendConsumptionLicense"
              }
            },
            "LIST_PURCHASED_LICENSES": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "ListPurchasedLicenses"
              }
            },
            "CREATE_TOKEN": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "CreateToken"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#AllowedOperationList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
          },
          "traits": {
            "smithy.api#length": {
              "min": 1,
              "max":
7
            }
          }
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    },
    "com.amazonaws.licensemanager#Arn": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 2048
        },
        "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
      }
    },
    "com.amazonaws.licensemanager#ArnList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Arn"
      }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError":
{
          "code": "AuthorizationFailure",
          "httpResponseCode": 403
        },
        "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 403
      }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
      "type": "structure",
      "members": {
        "LastRunTime": {
          "target": "com.amazonaws.licensemanager#DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
          }
        }
      },
      "traits": {
```

```
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

 "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
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            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"

        },
            {
              "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
          }
        },
        "com.amazonaws.licensemanager#CheckInLicenseRequest":
 {
          "type": "structure",
          "members": {
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>",
                "smithy.api#required": {}
              }
            },
            "Beneficiary": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
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                "smithy.api#documentation": "<p>License beneficiary.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckInLicenseResponse": {
          "type": "structure",
          "members": {},
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
              "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
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            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
              "smithy.api#required": {}
            }
          },
          "DigitalSignatureMethod": {
            "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
            "traits": {
              "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
              "smithy.api#required": {}
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
```

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            }
          },
          "CheckoutMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about constraints.</p>"
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed":
{
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
```

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            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
              }
            },
            "CheckoutMetadata": {
              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Information about constraints.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicense": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
           },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

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            },
            {
               "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target":
"com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n        <p>If the
account that created the license is the same that is performing the check out, you must\n        specify the account
as the beneficiary.</p>\n        </note>"
         }
      },
      "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
         "type": "structure",
         "members": {
            "ProductSKU": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product
SKU.</p>",
                  "smithy.api#required": {}
               }
            },
            "CheckoutType": {
               "target": "com.amazonaws.licensemanager#CheckoutType",
               "traits": {
                  "smithy.api#documentation": "<p>Checkout type.</p>",
                  "smithy.api#required": {}
               }
            },
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            "KeyFingerprint": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                "smithy.api#required": {}
              }
            },
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",

        "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Beneficiary": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            }
          },
          "traits": {

          "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
          "type": "structure",
          "members": {
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
```

```
            }
          },
          "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License consumption token.</p>"
            }
          },
          "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
          },
           "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
              "smithy.api#documentation": "<p>Signed token.</p>"
            }
          },
          "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Node ID.</p>"
            }
          },
          "IssuedAt": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
```

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    }
  },
  "com.amazonaws.licensemanager#CheckoutType": {
    "type": "enum",
    "members": {
      "PROVISIONAL": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PROVISIONAL"
        }
      },
      "PERPETUAL": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PERPETUAL"
        }
       }
    }
  },
  "com.amazonaws.licensemanager#ClientRequestToken": {
    "type": "string",
    "traits": {
      "smithy.api#length": {
        "min": 1,
        "max": 36
      }
    }
  },
  "com.amazonaws.licensemanager#ClientToken": {
    "type": "string",
    "traits": {
      "smithy.api#length": {
        "min": 0,
        "max": 2048
      },
      "smithy.api#pattern": "^\\S+$"
    }
  },
  "com.amazonaws.licensemanager#ConflictException": {
    "type": "structure",
    "members": {
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "ConflictException",
```

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            "httpResponseCode":
409
            },
            "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 409
          }
        },
        "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
          "type": "structure",
          "members": {
            "ResourceType": {
              "target": "com.amazonaws.licensemanager#ResourceType",
              "traits": {
                "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
              }
            },
            "ConsumedLicenses": {
              "target": "com.amazonaws.licensemanager#BoxLong",
              "traits": {
                "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
              }
            }
          },

 "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
          }
        },
        "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
          }
        },
        "com.amazonaws.licensemanager#ConsumptionConfiguration": {
          "type": "structure",
          "members": {
            "RenewType": {
              "target": "com.amazonaws.licensemanager#RenewType",
              "traits": {
                "smithy.api#documentation": "<p>Renewal frequency.</p>"
              }
            },
            "ProvisionalConfiguration": {
              "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
              "traits": {
```

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                "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
              }
            },
            "BorrowConfiguration": {
              "target": "com.amazonaws.licensemanager#BorrowConfiguration",
              "traits": {
                "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrant": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
```

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license\n        entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}

    }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
              }
            },
            "Principals": {
              "target": "com.amazonaws.licensemanager#PrincipalArnList",
              "traits": {
                "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n          <li>\n            <p>An Amazon Web Services
account, which includes only the account specified.</p>\n          </li>\n        </ul>\n        <ul>\n          <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n          </li>\n        </ul>\n
<ul>\n
          <li>\n            <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
                "smithy.api#required": {}
              }
            },
            "HomeRegion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
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```
                "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },

        "com.amazonaws.licensemanager#CreateGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersion":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
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        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
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```
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "GrantName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
```

```
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>New version of the grant.</p>"
               }
            }
         },
         "traits":
{
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a license configuration.</p>\n            <p>A license configuration is an abstraction of a customer license agreement that can be\n            consumed and enforced by License Manager. Components include specifications for the license\n            type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n            Dedicated Instance, Dedicated Host, or
            all of these), license affinity  to host (how long a \n            license must be associated with a host), and the number of licenses purchased and used.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
          "traits": {
            "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
          }
        },
        "LicenseCountHardLimit": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n          blocks the launch of new instances.</p>"
          }
        },
        "LicenseRules": {
          "target":
 "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n          vary by dimension, as follows.</p>\n
<ul>\n            <li>\n              <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
            <code>licenseAffinityToHost</code> |\n              <code>maximumCores</code> |
<code>minimumCores</code>\n              </p>\n            </li>\n            <li>\n              <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n              <code>maximumCores</code> |
<code>minimumCores</code> |\n              <code>maximumSockets</code> | <code>minimumSockets</code> |\n
```

```
        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n              <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
            }
          },

  "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
```

```
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
```

```
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n        For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
              "smithy.api#required": {}
            }
          },
          "DestinationLicenseContext":
{
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

       "traits": {
              "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
```

```
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a report generator.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "ReportGeneratorName":
{
          "target": "com.amazonaws.licensemanager#ReportGeneratorName",
          "traits": {
            "smithy.api#documentation": "<p>Name of the report generator.</p>",
            "smithy.api#required": {}
          }
        },
        "Type": {
          "target": "com.amazonaws.licensemanager#ReportTypeList",
          "traits": {
            "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
```

generated: \n \n \n License configuration report - Reports the number and details of consumed licenses for a license configuration. \n \n \n Resource report - Reports the tracked licenses and resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}

}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " Defines the type of license configuration the report generator tracks. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits": {
"smithy.api#documentation": " Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Description of the report generator. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanager#TagList",
"traits": {
"smithy.api#documentation": " Tags to add to the report generator. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product
name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region for the license.</p>",
            "smithy.api#required": {}

  }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>",
            "smithy.api#required": {}
          }
         },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
```

```
            "traits": {
              "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
          "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseVersion": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#ConflictException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target":
"com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
              }
            },
            "LicenseName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
              }
            },
            "ProductName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
            }
        },
        "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits":
{
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                "smithy.api#required": {}
            }
```

```
            },

  "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>",
                    "smithy.api#required": {}
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>"
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New version of the license.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#output":
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n          <p>A refresh token is a JWT
token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get
role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#CreateTokenRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits":
{
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is
mapped to the aud claim of the\n          JWT token.</p>",
            "smithy.api#required": {}
          }
        },
        "RoleArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. \n          License Manager does not check whether the roles are in use.</p>"
          }
        },
        "ExpirationInDays": {
          "target": "com.amazonaws.licensemanager#Integer",
          "traits": {
            "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>"
          }
        },
        "TokenProperties": {
           "target": "com.amazonaws.licensemanager#MaxSize3StringList",
          "traits": {
            "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
```

```
    "members": {
      "TokenId": {
        "target": "com.amazonaws.licensemanager#String",

       "traits": {
          "smithy.api#documentation": "<p>Token ID.</p>"
        }
      },
      "TokenType": {
        "target": "com.amazonaws.licensemanager#TokenType",
        "traits": {
          "smithy.api#documentation": "<p>Token type.</p>"
        }
      },
      "Token": {
        "target": "com.amazonaws.licensemanager#TokenString",
        "traits": {
          "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#DateTime": {
    "type": "timestamp"
  },
  "com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
      "Begin": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>Start of the time range.</p>",
          "smithy.api#required": {}
        }
      },
      "End": {
        "target": "com.amazonaws.licensemanager#ISO8601DateTime",
        "traits": {
          "smithy.api#documentation": "<p>End of the time range.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusReason": {
```

```
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the
grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
          }
        },
        "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
          },

        "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n         <p>You cannot delete a license configuration that is in use.</p>"
         }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
         "type": "structure",
         "members":
{
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
         "type": "structure",
         "members": {},
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
         },
         "output": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
          }
        },
        "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
```

```
"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

    {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Token ID.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#DeleteTokenResponse": {
          "type": "structure",
          "members": {},
          "traits": {
            "smithy.api#output": {}

         }
        },
        "com.amazonaws.licensemanager#DigitalSignatureMethod": {
          "type": "enum",
          "members": {
            "JWT_PS384": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "JWT_PS384"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#Entitlement": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
              }
            },
            "Value": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
              }
            },
            "MaxCount": {
              "target": "com.amazonaws.licensemanager#Long",
              "traits": {
```

```
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
              }
            },
            "Overage": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
              }
            },
            "Unit": {
              "target": "com.amazonaws.licensemanager#EntitlementUnit",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement unit.</p>",
                "smithy.api#required": {}
              }
            },
            "AllowCheckIn": {
              "target":
"com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
          }
        },
        "com.amazonaws.licensemanager#EntitlementData": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement data name.</p>",
                "smithy.api#required": {}
              }
            },
            "Value": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement
data value.</p>"
              }
            },
            "Unit": {
              "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
              "traits": {
```

```
                "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#EntitlementDataList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
          }
        },
        "com.amazonaws.licensemanager#EntitlementDataUnit": {
          "type": "enum",
          "members": {
            "COUNT": {
              "target": "smithy.api#Unit",
              "traits": {

"smithy.api#enumValue": "Count"
              }
            },
            "NONE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "None"
              }
            },
            "SECONDS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Seconds"
              }
            },
            "MICROSECONDS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Microseconds"
              }
            },
            "MILLISECONDS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Milliseconds"
              }
```

```
        },
        "BYTES": {
          "target": "smithy.api#Unit",
           "traits": {
             "smithy.api#enumValue": "Bytes"
          }
        },
        "KILOBYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobytes"
          }
        },
        "MEGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabytes"
          }
        },
        "GIGABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Gigabytes"
          }
        },
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "Megabits"
```

```
            }
        },
        "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

```
                "smithy.api#enumValue": "Terabytes/Second"
              }
            },
            "BITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Bits/Second"
              }
            },
            "KILOBITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
              }
            },
            "MEGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
              }
            },
            "GIGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
```

```
    "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
```

```
"BYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Bytes"
   }
},
"KILOBYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Kilobytes"
    }
},
"MEGABYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Megabytes"
   }
},
"GIGABYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Gigabytes"
   }
},
"TERABYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Terabytes"
   }
},
"BITS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Bits"
   }
},
"KILOBITS": {
   "target": "smithy.api#Unit",
   "traits": {

    "smithy.api#enumValue": "Kilobits"
   }
},
"MEGABITS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Megabits"
   }
```

```
        },
        "GIGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits"
          }
        },
        "TERABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits"
          }
        },
        "PERCENT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Percent"
          }
        },
        "BYTES_PER_SECOND": {
          "target":
"smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bytes/Second"
          }
        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
"smithy.api#enumValue": "Terabytes/Second"
                }
            },
            "BITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Bits/Second"
                }
            },
            "KILOBITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Kilobits/Second"
                }
            },
            "MEGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Megabits/Second"
                }
            },
            "GIGABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Gigabits/Second"
                }
            },

        "TERABITS_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Terabits/Second"
                }
            },
            "COUNT_PER_SECOND": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Count/Second"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
          },
          "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

          "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
          },
          "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>",
            "smithy.api#required": {}

    }
        },
        "DryRun": {
          "target": "com.amazonaws.licensemanager#Boolean",
          "traits": {
            "smithy.api#default": false,
            "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
```

```
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
        },

        "Expiration": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        },
        "ErrorCode": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "FailedDependency",
          "httpResponseCode": 424
        },
        "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 424
      }
    },
    "com.amazonaws.licensemanager#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#FilterName",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
              }
            },
            "Values": {
              "target": "com.amazonaws.licensemanager#FilterValues",
              "traits": {
                "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
          }
        },
        "com.amazonaws.licensemanager#FilterLimitExceededException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "FilterLimitExceeded",
              "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        },
        "com.amazonaws.licensemanager#FilterList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Filter"
          }
        },
        "com.amazonaws.licensemanager#FilterName": {
          "type": "string"
        },
        "com.amazonaws.licensemanager#FilterValue": {
          "type": "string"
        },
        "com.amazonaws.licensemanager#FilterValues": {
          "type": "list",
```

```
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
```

```
        "type": "structure",
        "members": {
          "Token": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
              "smithy.api#required": {}
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
              "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
        "type": "structure",
        "members": {
          "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

```
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"

      },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetGrantRequest": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetGrantResponse": {
      "type": "structure",
      "members": {
```

```
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
                "smithy.api#documentation": "<p>Grant details.</p>"
            }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
```

```
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationId": {
```

```
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
    }
},
"LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
},
"Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
},
"Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
        "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
},
"LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
        "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
},
"LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
        "smithy.api#documentation": "<p>License rules.</p>"
    }
},
"LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
        "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
},
"LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
        "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
},
```

```
    "ConsumedLicenses": {
      "target": "com.amazonaws.licensemanager#BoxLong",
      "traits": {
        "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
      }
    },
    "Status": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>License configuration status.</p>"
      }

},
    "OwnerAccountId": {
      "target": "com.amazonaws.licensemanager#String",
      "traits": {
        "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
      }
    },
    "ConsumedLicenseSummaryList": {
      "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
      "traits": {
        "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
      }
    },
    "ManagedResourceSummaryList": {
      "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
      "traits": {
        "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
      }
    },
    "Tags": {
      "target": "com.amazonaws.licensemanager#TagList",
       "traits": {
        "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
      }
    },
    "ProductInformationList": {
      "target": "com.amazonaws.licensemanager#ProductInformationList",
      "traits": {
        "smithy.api#documentation": "<p>Product information.</p>"
      }
    },
    "AutomatedDiscoveryInformation": {
      "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
      "traits": {
        "smithy.api#documentation": "<p>Automated discovery information.</p>"
      }
```

```
            },
            "DisassociateWhenNotFound": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
         }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
         "type": "structure",
         "members": {
            "LicenseConversionTaskId": {
               "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
```

```
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information
 about the license type converted from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
          },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
```

```
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

          },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                "smithy.api#required":
{}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
            "ReportGenerator": {
              "target": "com.amazonaws.licensemanager#ReportGenerator",
              "traits": {
                "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
              }
            }
          },
```

```
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
```

```
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
      "type": "structure",
      "members": {
        "S3BucketArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
```

```
discovery data,\n        and so on.</p>"

  }
          },
          "SnsTopicArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
            }
          },
          "OrganizationConfiguration": {
            "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n        cross-account discovery.</p>"
            }
          },
          "EnableCrossAccountsDiscovery": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
            }

        },
          "LicenseManagerResourceShareArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n        provides member accounts with access to this share.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
```

```
 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
              "smithy.api#documentation": "<p>Granted operations.</p>",
              "smithy.api#required": {}
            }
          },
          "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
              "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
"<p>Describes a grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Grant"
        }
      },
      "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
          "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
          },
          "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_ACCEPT"
            }
```

```
        },
        "REJECTED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "REJECTED"

        }
        },
        "ACTIVE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ACTIVE"
          }
        },
        "FAILED_WORKFLOW": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "FAILED_WORKFLOW"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        },
        "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DISABLED": {
          "target": "smithy.api#Unit",
          "traits":
{
            "smithy.api#enumValue": "DISABLED"
          }
        },
        "WORKFLOW_COMPLETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "WORKFLOW_COMPLETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#GrantedLicense": {
```

```
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>"
            }

},
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>"
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>"
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
              "smithy.api#documentation": "<p>Granted license issuer.</p>"
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

           }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>Granted license status.</p>"
            }
          },
          "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
            }
        },
        "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>"
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
        },
        "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

    }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
        },
        "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
                "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
```

```
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidResourceState",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n down.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
              "smithy.api#documentation": "<p>Condition of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
      },
     "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
```

```
            "EQUALS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "EQUALS"
              }
            },
            "NOT_EQUALS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "NOT_EQUALS"
              }
            },
            "BEGINS_WITH": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "BEGINS_WITH"
              }
            },
            "CONTAINS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "CONTAINS"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#InventoryFilterList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#InventoryFilter"
          }
        },
        "com.amazonaws.licensemanager#Issuer": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Issuer name.</p>",
                "smithy.api#required": {}
              }
            },
            "SignKey": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage
```

```
of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
            }
          },
          "com.amazonaws.licensemanager#IssuerDetails": {
            "type": "structure",
            "members": {
              "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                  "smithy.api#documentation": "<p>Issuer name.</p>"
                }
              },
              "SignKey": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                  "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
                }
              },
              "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                  "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
            }
          },
          "com.amazonaws.licensemanager#License": {
            "type": "structure",
            "members": {
              "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
                }
              },
              "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

```
"smithy.api#documentation": "<p>License name.</p>"
        }
      },
      "ProductName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product name.</p>"
        }
      },
      "ProductSKU": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Product SKU.</p>"
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#IssuerDetails",
        "traits": {
          "smithy.api#documentation": "<p>License issuer.</p>"
        }
      },
      "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {

      "smithy.api#documentation": "<p>Home Region of the license.</p>"
        }
      },
      "Status": {
        "target": "com.amazonaws.licensemanager#LicenseStatus",
        "traits": {
          "smithy.api#documentation": "<p>License status.</p>"
        }
      },
      "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
          "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
        }
      },
      "Beneficiary": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License beneficiary.</p>"
        }
      },
```

```
            "Entitlements": {

  "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
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```
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
              "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
            }
          },
          "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
              "smithy.api#documentation": "<p>License rules.</p>"
            }
          },
          "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
          },
          "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ConsumedLicenses": {
```

```
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
          },
          "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

          }
          },
          "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
          },
          "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          },
          "AutomatedDiscoveryInformation": {

            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
              "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n            consumed and enforced by License Manager. Components include specifications for the license\n            type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n
```

Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
"type": "structure",
"members": {
"ResourceArn":
{
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Amazon Resource Name (ARN) of the resource. "
}
},
"ResourceType": {
"target": "com.amazonaws.licensemanager#ResourceType",
"traits": {
"smithy.api#documentation": " Type of server resource. "
}
},
"ResourceOwnerId": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " ID of the Amazon Web Services account that owns the resource consuming licenses. "
}
},
"AssociationTime": {
"target": "com.amazonaws.licensemanager#DateTime",
"traits": {

"smithy.api#documentation": " Time when the license configuration was associated with the resource. "
}
},
"AmiAssociationScope": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an association with a license configuration. "
}
},
"com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
"type": "list",

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        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
```

```
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
            }
          },

    "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
          "UsageOperation": {
            "target": "com.amazonaws.licensemanager#UsageOperation",
            "traits": {
              "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from.  For more information about which platforms correspond to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
            }
          }
        },
```

```
      "traits": {
        "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTask": {
      "type": "structure",
      "members": {
        "LicenseConversionTaskId": {

     "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
          }
        },
        "SourceLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
          }
        },
        "DestinationLicenseContext": {
          "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
          "traits": {
            "smithy.api#documentation": "<p>The status of the conversion task.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
          }
        },
```

```
            "StartTime": {
               "target": "com.amazonaws.licensemanager#DateTime",
               "traits": {
                  "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
               }
            },
            "LicenseConversionTime": {
               "target": "com.amazonaws.licensemanager#DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
               }
            },
            "EndTime": {
               "target": "com.amazonaws.licensemanager#DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
         "type": "string",
         "traits": {

          "smithy.api#length": {
               "min": 0,
               "max": 50
            },
            "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
         "type": "enum",
         "members": {
            "IN_PROGRESS": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "IN_PROGRESS"
               }
            },
            "SUCCEEDED": {
               "target": "smithy.api#Unit",
               "traits": {
```

```
                "smithy.api#enumValue": "SUCCEEDED"
              }
            },
            "FAILED": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "FAILED"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#LicenseConversionTasks":
{
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
          }
        },
        "com.amazonaws.licensemanager#LicenseCountingType": {
          "type": "enum",
          "members": {
            "VCPU": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "vCPU"
              }
            },
            "INSTANCE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Instance"
              }
            },
            "CORE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Core"
              }
            },
            "SOCKET": {
              "target": "smithy.api#Unit",
               "traits": {
                "smithy.api#enumValue": "Socket"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#LicenseDeletionStatus": {
```

```
    "type": "enum",
    "members": {
      "PENDING_DELETE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "PENDING_DELETE"
        }
      },
      "DELETED": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "DELETED"
        }
      }
    }
  },
  "com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
      "target": "com.amazonaws.licensemanager#License"
    }
  },
  "com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
      "ResourceArn": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
        }
      },
      "ResourceType": {
        "target": "com.amazonaws.licensemanager#ResourceType",
        "traits": {
          "smithy.api#documentation": "<p>Resource type.</p>"
        }
      },
      "ErrorMessage": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Error message.</p>"
        }
      },
      "FailureTime": {
        "target": "com.amazonaws.licensemanager#DateTime",
        "traits": {
```

```
        "smithy.api#documentation": "<p>Failure time.</p>"
                }
            },
            "OperationName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the operation.</p>"
                }
            },
            "ResourceOwnerId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
                }
            },
            "OperationRequestedBy": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
                }
            },
            "MetadataList": {

                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Reserved.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailureList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
        }
    },
    "com.amazonaws.licensemanager#LicenseSpecification": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
            "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",

          "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
            }
          },
          "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
```

```
            }
        },
        "EXPIRED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EXPIRED"
            }
        },

     "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseUsage": {
    "type": "structure",
    "members": {
        "EntitlementUsages": {
            "target": "com.amazonaws.licensemanager#EntitlementUsageList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlement usages.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

    }
},
"com.amazonaws.licensemanager#LicenseUsageException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "LicenseUsageFailure",
```

```
            "httpResponseCode": 412
          },
          "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource launch.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 412
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the resource associations for the specified license configuration.</p>\n          <p>Resource associations need not consume licenses from a license configuration. \n          For example, an AMI or a stopped instance might not consume a license (depending on \n the license rules).</p>"
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results
to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
```

```
      "input": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {

        "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n
```

```
</li>\n <li>\n <p>\n <code>GrantStatus</code>\n </p>\n </li>\n
<li>\n <p>\n <code>GranteePrincipalARN</code>\n </p>\n </li>\n
<li>\n <p>\n <code>ProductSKU</code>\n </p>\n </li>\n <li>\n
<p>\n <code>LicenseIssuerName</code>\n
</p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",

      "traits": {
              "smithy.api#documentation": "<p>Distributed grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
          },
          "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
               "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
```

```
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
            "LicenseOperationFailureList": {
                "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
                "traits": {
                    "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

   "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
```

```
</li>\n <li>\n <p>\n <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",

           "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
          "type": "structure",
          "members": {
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {

      "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
          "type": "structure",
          "members": {
            "LicenseConversionTasks": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configuration tasks for your
```

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account.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

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        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n      <ul>\n        <li>\n          <p>\n            <code>LicenseConfigurationArn</code>\n
</p>\n        </li>\n      </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits":
{
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
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```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                    "smithy.api#required": {}
                }
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        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
      "type": "structure",
      "members": {
        "LicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
          }
        },
        "NextToken": {
           "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicenseVersions": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
      },
      "errors": [
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        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
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```
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

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        "traits": {
            "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
            "LicenseArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
                }
            },

     "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>Beneficiary</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>ProductSKU</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                    <code>Fingerprint</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>Status</code>\n                </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
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            "smithy.api#documentation": "<p>License details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

"smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while
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specifying the\n         recipient as this Amazon Web Services account, your organization, or an organizational unit\n
    (OU) to which this member account belongs.</p>"
          }
       },
       "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
          "type": "operation",
          "input": {
             "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
          },
          "output": {
             "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
          },
          "errors": [
             {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
             {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
             {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
             {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
             {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
             },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
             {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
             }
          ],
          "traits": {
             "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
          }
       },
       "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
          "type": "structure",
          "members": {
             "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                   "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                   "smithy.api#required": {}
```

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            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>ParentArn</code>\n        </p>\n        </li>\n
<li>\n        <p>\n        <code>GranteePrincipalArn</code>\n        </p>\n        </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
```

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    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
          "traits": {
            "smithy.api#documentation": "<p>Received grant details.</p>"
          }
        },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListReceivedLicenses": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists received licenses.</p>"
    }
},
"com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
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{
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
           "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
           {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
           },
           {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
           },
           {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
           {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
           {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
           },
           {

     "target": "com.amazonaws.licensemanager#ServerInternalException"
           },
           {
              "target": "com.amazonaws.licensemanager#ValidationException"
           }
        ],
        "traits": {
           "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
     },
     "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
           "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                 "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
           </p>\n          </li>\n        </ul>"
              }
           },
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      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#MaxSize100",
        "traits": {
          "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
    "type": "structure",
    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
         "traits": {
          "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
    "type": "structure",
    "members": {
      "LicenseArns": {
        "target": "com.amazonaws.licensemanager#ArnList",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
        }
      },
```

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        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n <ul>\n <li>\n <p>\n <code>ProductSKU</code>\n </p>\n
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#GrantedLicenseList",
          "traits": {
            "smithy.api#documentation": "<p>Received license details.</p>"
          }
        },

        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

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},
"com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
             "target": "com.amazonaws.licensemanager#FailedDependencyException"
        },
        {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
},
"com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
             "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#InventoryFilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
 </li>\n <li>\n <p>\n <code>application_name</code> - The name of the
application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
 </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n
 Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values
are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-
server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n
 <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n
 <code>resource_id</code> - The ID of the resource. \n Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n
 <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
 about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
```

```
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
```

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    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
      "type": "structure",
      "members": {
        "Tags": {
          "target": "com.amazonaws.licensemanager#TagList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the tags.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokens": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTokensRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTokensResponse"
      },
      "errors":
[
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists your tokens.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListTokensRequest": {
      "type": "structure",
      "members": {
```

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            "TokenIds": {
              "target": "com.amazonaws.licensemanager#StringList",
              "traits": {

                "smithy.api#documentation": "<p>Token IDs.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#MaxSize100",
              "traits": {
                "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListTokensResponse": {
          "type": "structure",
          "members": {
            "Tokens": {
              "target": "com.amazonaws.licensemanager#TokenList",
              "traits": {
                "smithy.api#documentation": "<p>Received token details.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

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        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n          consumption details by resource at a selected point in time. Use this action to audit the\n          current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n       are supported:</p>\n       <ul>\n          <li>\n             <p>\n                <code>resourceArn</code> - The ARN of the license configuration resource.\n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n             <p>\n                <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n             <p>\n                <code>resourceAccount</code> - The ID of the account that owns the resource. \n                Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n       </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
          "type": "structure",
          "members": {

            "LicenseConfigurationUsageList": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
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                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#Location": {
          "type": "string"
        },
        "com.amazonaws.licensemanager#Long": {
          "type": "long"
        },
        "com.amazonaws.licensemanager#ManagedResourceSummary": {
          "type": "structure",
          "members": {
            "ResourceType":
{
              "target": "com.amazonaws.licensemanager#ResourceType",
              "traits": {
                "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
              }
            },
            "AssociationCount": {
              "target": "com.amazonaws.licensemanager#BoxLong",
              "traits": {
                "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
          }
        },
        "com.amazonaws.licensemanager#MaxSize100": {

        "type": "integer",
          "traits": {
            "smithy.api#range": {
              "min": 1,
              "max": 100
```

```
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The value.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
    }
},
"com.amazonaws.licensemanager#MetadataList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#Metadata"
    }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
    "type": "structure",
    "members": {
```

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            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
             "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
            "ActivationOverrideBehavior": {
                "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
                "traits": {
                    "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n          Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n          <ul>\n             <li>\n                <p>As a license administrator, you can optionally specify an\n                   <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n             </li>\n             <li>\n                <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n                   account in your organization.</p>\n             </li>\n             <li>\n                <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n                   <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n                   are activating the grant.</p>\n             </li>\n          </ul>\n          <dl>\n             <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n             <dd>\n                <p>Use this value to activate a grant without replacing any member accounts\n                   active grants for the same product.</p>\n             </dd>\n             <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n             <dd>\n                <p>Use this value to activate a grant and disable other active grants in any\n                   member accounts\n for the same product. This action will also replace their\n                   previously activated grants with this activated grant.</p>\n             </dd>\n          </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n          override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
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            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
"<p>Enables Organizations integration.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
      },
      "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 1
          }
        }
      },
      "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductInformationFilterList": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
            "traits": {
              "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n          <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n          <p>The following filters and are supported when
the resource type \n          is <code>SSM_MANAGED</code>:</p>\n
          <ul>\n            <li>\n              <p>\n                <code>Application Name</code> - The name of the
application.\n                Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n                Logical
```

operator is <code>EQUALS</code>. \n \n \n \n <code>Application Version</code> - The version of the application.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": " Describes product information for a license configuration. "
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": " Filter name. ",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

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      "traits": {
            "smithy.api#documentation": "<p>Filter value.</p>"
          }
        },
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
      }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
      "type": "structure",
      "members": {
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
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            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "RateLimitExceeded",
                "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
        }
    },
    "com.amazonaws.licensemanager#ReceivedMetadata": {
        "type": "structure",
        "members": {
            "ReceivedStatus": {
                "target": "com.amazonaws.licensemanager#ReceivedStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Received status.</p>"
                }
            },
            "ReceivedStatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Received
 status reason.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
            "PENDING_WORKFLOW": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "PENDING_WORKFLOW"
                }
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            },
            "PENDING_ACCEPT": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue":
"PENDING_ACCEPT"
               }
            },
            "REJECTED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "REJECTED"
               }
            },
            "ACTIVE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "ACTIVE"
               }
            },
            "FAILED_WORKFLOW": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "FAILED_WORKFLOW"
               }
            },
            "DELETED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "DELETED"
               }
            },
            "DISABLED": {
               "target": "smithy.api#Unit",
                "traits": {
                  "smithy.api#enumValue": "DISABLED"
               }
            },
            "WORKFLOW_COMPLETED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "WORKFLOW_COMPLETED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#RedirectException": {
         "type": "structure",
```

```
      "members": {
        "Location": {
          "target": "com.amazonaws.licensemanager#Location",
          "traits": {
            "smithy.api#httpHeader": "Location"
          }
        },
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
         "smithy.api#error": "client",
        "smithy.api#httpError": 308
      }
    },
    "com.amazonaws.licensemanager#RejectGrant": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
```

```
        ],
        "traits": {
          "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

}
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
```

```
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Weekly"
            }
          },
          "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Monthly"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {
          "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {

        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
        "members": {
          "value": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
              "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n        The only supported value is <code>1</code>.</p>"
```

```
            }
          },
          "period": {
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

           "traits": {
              "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
          },
```

```
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
                }
            },
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
                }
            },
            "LastRunStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
                }
            },
            "LastRunFailureReason":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
                }
            },
            "LastReportGenerationTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
                }
            },
            "ReportCreatorAccount": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
```

```
generator.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",

        "traits": {
                    "smithy.api#documentation": "<p>Description of the report generator.</p>"
                }
            },
            "S3Location": {
                "target": "com.amazonaws.licensemanager#S3Location",
                "traits": {
                    "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Time the report was created.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
                }

      }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
        }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
```

```
        }
      },
      "com.amazonaws.licensemanager#ReportType": {
        "type": "enum",
        "members": {
          "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

      },
          "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ReportType"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
```

```
            "Platform": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform of the resource.</p>"
                }
            },
            "PlatformVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
                }
            },
            "ResourceOwningAccountId":
{
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
        }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "ResourceLimitExceeded",

                 "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
```

```
"com.amazonaws.licensemanager#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "aws.protocols#awsQueryError": {
            "code": "InvalidResource.NotFound",
            "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The resource cannot be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
    }
},
"com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
        "EC2_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_INSTANCE"
            }
        },
        "EC2_HOST": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_HOST"
            }
        },
        "EC2_AMI": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "EC2_AMI"
            }
        },
        "RDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "RDS"
            }
        },
        "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
            "target": "smithy.api#Unit",
            "traits": {
```

```
                    "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#S3Location": {
        "type": "structure",
        "members": {
            "bucket": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
                }
            },
            "keyPrefix": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
        }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InternalError",
                "httpResponseCode": 500
            },
            "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
            "smithy.api#error": "server",
            "smithy.api#httpError": 500
        }
    },
    "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 4096
```

```
            }
          }
        },
        "com.amazonaws.licensemanager#StatusReasonMessage": {
          "type": "string",
          "traits":
{
            "smithy.api#length": {
              "min": 0,
              "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
          }
        },
        "com.amazonaws.licensemanager#String": {
          "type": "string"
        },
        "com.amazonaws.licensemanager#StringList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#String"
          }
        },
        "com.amazonaws.licensemanager#Tag": {
          "type": "structure",
          "members": {
            "Key": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Tag key.</p>"
              }
            },
            "Value": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation":
"<p>Tag value.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#TagKeyList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#String"
```

```
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
```

```
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
```

```
format.</p>"
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller.</p>"
                }
            },
            "RoleArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
                }
            }
        },
        "traits": {

          "smithy.api#documentation": "<p>Describes a token.</p>"
        }
    },
    "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#TokenData"
        }
    },
    "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 4096
            },
            "smithy.api#pattern": "^\\S+$"
        }
    },
    "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
```

```
            "REFRESH_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "REFRESH_TOKEN"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                     "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
        },
        "output": {

 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            },
            "LicenseConfigurationStatus": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
              "traits": {
                "smithy.api#documentation": "<p>New status of the license configuration.</p>"
              }
            },
            "LicenseRules": {
              "target": "com.amazonaws.licensemanager#StringList",
              "traits": {

          "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
        configuration is licenseAffinityToHost.</p>"
              }
            },
            "LicenseCount": {
              "target": "com.amazonaws.licensemanager#BoxLong",
              "traits": {
```

```
                "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
              }
            },
            "LicenseCountHardLimit": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
              }
            },
            "Name": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New description of the license configuration.</p>"
              }
            },
            "ProductInformationList": {
              "target": "com.amazonaws.licensemanager#ProductInformationList",
              "traits": {
                "smithy.api#documentation": "<p>New product information.</p>"
              }
            },
            "DisassociateWhenNotFound": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
          "type": "structure",
          "members": {},
          "traits": {
            "smithy.api#output": {}
          }
```

```
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
         },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
      "type": "structure",
      "members": {
        "LicenseManagerReportGeneratorArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
```

update. ",
"smithy.api#required": {}
}
},
"ReportGeneratorName": {
"target": "com.amazonaws.licensemanager#ReportGeneratorName",
"traits": {
"smithy.api#documentation": " Name of the report generator. ",
"smithy.api#required": {}
}
},
"Type": {
"target": "com.amazonaws.licensemanager#ReportTypeList",
"traits": {
"smithy.api#documentation":
" Type of reports to generate. The following report types are supported: \n \n \n
License configuration report - Reports the number and details of consumed licenses for a license
configuration. \n \n \n Resource report - Reports the tracked licenses and
resource consumption for a license configuration. \n \n ",
"smithy.api#required": {}
}
},
"ReportContext": {
"target": "com.amazonaws.licensemanager#ReportContext",
"traits": {
"smithy.api#documentation": " The report context. ",
"smithy.api#required": {}
}
},
"ReportFrequency": {
"target": "com.amazonaws.licensemanager#ReportFrequency",
"traits":
{
"smithy.api#documentation": " Frequency by which reports are generated. ",
"smithy.api#required": {}
}
},
"ClientToken": {
"target": "com.amazonaws.licensemanager#ClientRequestToken",
"traits": {
"smithy.api#documentation": " Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request. ",
"smithy.api#required": {}
}
},
"Description": {
"target": "com.amazonaws.licensemanager#String",
"traits": {

```
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
          "type": "structure",
          "members": {},
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
              "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
              "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
```

```
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
```

```
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UsageOperation": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            }
        }
    },
    "com.amazonaws.licensemanager#ValidationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

     "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package grafana

import (
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result,
 metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
```

```
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{},
 middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addAssociateLicenseResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
 middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack,
 options); err != nil {
 return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}

type opAssociateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opAssociateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opAssociateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown
 transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint, err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }
```

```
req.URL = &resolvedEndpoint.URI

for k := range resolvedEndpoint.Headers {
 req.Header.Set(
  k,
  resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "grafana"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx
= awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports %v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "grafana"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
```

```
   // The signer sets an equivalent value at client initialization time.
   // Setting this
 context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("grafana")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx,
 v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addAssociateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return stack.Serialize.Insert(&opAssociateLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "errors"
 "fmt"
 "github.com/aws/aws-sdk-go-v2/aws"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 internalauth "github.com/aws/aws-sdk-go-v2/internal/auth"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 smithyendpoints "github.com/aws/smithy-go/endpoints"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput
 struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
```

```
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member
is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {
```

```
// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addlegacyEndpointContextSetter(stack, options); err
 != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = addCreateLicenseResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addendpointDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
 ServiceID:     ServiceID,
 SigningName:
  "license-manager",
 OperationName: "CreateLicense",
 }
}

type opCreateLicenseResolveEndpointMiddleware struct {
 EndpointResolver EndpointResolverV2
 BuiltInResolver  builtInParameterResolver
}

func (*opCreateLicenseResolveEndpointMiddleware) ID() string {
 return "ResolveEndpointV2"
}

func (m *opCreateLicenseResolveEndpointMiddleware) HandleSerialize(ctx context.Context, in
middleware.SerializeInput, next middleware.SerializeHandler) (
 out middleware.SerializeOutput, metadata middleware.Metadata, err error,
) {
 if awsmiddleware.GetRequiresLegacyEndpoints(ctx) {
  return next.HandleSerialize(ctx, in)
 }

 req, ok := in.Request.(*smithyhttp.Request)
 if !ok {
  return out, metadata, fmt.Errorf("unknown transport type %T", in.Request)
 }

 if m.EndpointResolver == nil {
  return out, metadata, fmt.Errorf("expected endpoint resolver to not be nil")
 }

 params := EndpointParameters{}

 m.BuiltInResolver.ResolveBuiltIns(&params)

 var resolvedEndpoint smithyendpoints.Endpoint
 resolvedEndpoint,
 err = m.EndpointResolver.ResolveEndpoint(ctx, params)
 if err != nil {
  return out, metadata, fmt.Errorf("failed to resolve service endpoint, %w", err)
 }

 req.URL = &resolvedEndpoint.URI

 for k := range resolvedEndpoint.Headers {
  req.Header.Set(
```

```
 k,
 resolvedEndpoint.Headers.Get(k),
 )
}

authSchemes, err := internalauth.GetAuthenticationSchemes(&resolvedEndpoint.Properties)
if err != nil {
 var nfe *internalauth.NoAuthenticationSchemesFoundError
 if errors.As(err, &nfe) {
  // if no auth scheme is found, default to sigv4
  signingName := "license-manager"
  signingRegion := m.BuiltInResolver.(*builtInResolver).Region
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx = awsmiddleware.SetSigningRegion(ctx, signingRegion)

 }
 var ue *internalauth.UnSupportedAuthenticationSchemeSpecifiedError
 if errors.As(err, &ue) {
  return out, metadata, fmt.Errorf(
   "This operation requests signer version(s) %v but the client only supports
%v",
   ue.UnsupportedSchemes,
   internalauth.SupportedSchemes,
  )
 }
}

for _, authScheme := range authSchemes {
 switch authScheme.(type) {
 case *internalauth.AuthenticationSchemeV4:
  v4Scheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4)
  var signingName, signingRegion string
  if v4Scheme.SigningName == nil {
   signingName = "license-manager"
  } else {
   signingName = *v4Scheme.SigningName
  }
  if v4Scheme.SigningRegion == nil {
   signingRegion = m.BuiltInResolver.(*builtInResolver).Region
  } else {
   signingRegion = *v4Scheme.SigningRegion
  }
  if v4Scheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4Scheme.DisableDoubleEncoding)
  }
```

```
  ctx = awsmiddleware.SetSigningName(ctx, signingName)
  ctx
 = awsmiddleware.SetSigningRegion(ctx, signingRegion)
  break
 case *internalauth.AuthenticationSchemeV4A:
  v4aScheme, _ := authScheme.(*internalauth.AuthenticationSchemeV4A)
  if v4aScheme.SigningName == nil {
   v4aScheme.SigningName = aws.String("license-manager")
  }
  if v4aScheme.DisableDoubleEncoding != nil {
   // The signer sets an equivalent value at client initialization time.
   // Setting this context value will cause the signer to extract it
   // and override the value set at client initialization time.
   ctx = internalauth.SetDisableDoubleEncoding(ctx, *v4aScheme.DisableDoubleEncoding)
  }
  ctx = awsmiddleware.SetSigningName(ctx, *v4aScheme.SigningName)
  ctx = awsmiddleware.SetSigningRegion(ctx, v4aScheme.SigningRegionSet[0])
  break
 case *internalauth.AuthenticationSchemeNone:
  break
 }
}

 return next.HandleSerialize(ctx, in)
}

func addCreateLicenseResolveEndpointMiddleware(stack *middleware.Stack, options Options) error {
 return
 stack.Serialize.Insert(&opCreateLicenseResolveEndpointMiddleware{
  EndpointResolver: options.EndpointResolverV2,
  BuiltInResolver: &builtInResolver{
   Region:       options.Region,
   UseDualStack: options.EndpointOptions.UseDualStackEndpoint,
   UseFIPS:      options.EndpointOptions.UseFIPSEndpoint,
   Endpoint:     options.BaseEndpoint,
  },
 }, "ResolveEndpoint", middleware.After)
}
```

1.178 go-oidc 3.7.0

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1.179 sigstore-timestamp-authority 1.2.0

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When contributing to this repository, please first discuss the change you wish
to make via an [issue](https://github.com/sigstore/timestamp-authority/issues).

Pull Request Process

1. Create an [issue](https://github.com/sigstore/timestamp-authority/issues)
outlining the fix or feature.
2. Fork the {project-name} repository to your own github account and clone it locally.
3. Hack on your changes.

4. Update the README.md with details of changes to any interface, this includes new environment variables, exposed ports, useful file locations, CLI parameters and new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit-Message-Guidelines) below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core timestamp-authority team](https://github.com/orgs/github.com/sigstore/teams/tsa-codeowners) before merging.
8. If your pull request consists of more than one commit, please squash your commits as described in [Squash Commits](#Squash-Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article](https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of the Pull Request, but also assists the release process where commit messages are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, preceded by a single space, with blank lines in between, but conventions vary here
```

If you use an issue tracker, put references to them at the bottom,
like this:

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

## Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the
 review cycle), please perform a git squash
once a reviewer has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

  initial commit
  second commit
  final commit

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):

  git rebase -i HEAD~3

You default text editor will then open up and you will see the following::

  pick eb36612 initial commit
  pick 9ac8968 second commit
  pick a760569 final commit

  # Rebase eb1429f..a760569 onto eb1429f (3 commands)

We want to rebase on top of our first commit, so we change the other two commits
to `squash`:

  pick eb36612 initial commit
  squash 9ac8968 second commit
  squash a760569 final commit

After this, should you wish to update your commit message to better summarise
```

all of your pull request, run:

  git commit --amend

You will then need to force push (assuming your initial commit(s) were posted
to
 github):

  git push origin your-branch --force

Alternatively, a core member can squash your commits within Github.

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1.180 emicklei-proto 1.12.1

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1.182 moby-sys-user 0.1.0

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1.183 go-jose 3.0.1

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1.184 x-time-rate 0.5.0

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1.185 go.step.sm-crypto 0.38.0

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1.186 google-api-go-client 0.152.0

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1.187 go-kms 1.15.5

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
```

```
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client
```

```
 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are
 mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
```

```
 return resp, nil
}
// Copyright 2023 Google LLC
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
```

```
 Get              []gax.CallOption
 GetIamPolicy     []gax.CallOption
 Insert           []gax.CallOption
 List             []gax.CallOption
 SetIamPolicy     []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
 for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
```

```
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
 list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
 only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
```

```
 c.xGoogHeaders = []string{"x-goog-api-client", gax.XGoogHeader(kv...)}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns
 nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil
{
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
  }

  return nil
  }, opts...)
  if e != nil {
  return nil, e
  }
  return resp, nil
 }

 // GetIamPolicy gets the access control policy for
  a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
 third-party partners who are creating Cloud Marketplace images.
 func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
 opts ...gax.CallOption) (*computepb.Policy, error) {
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
  return nil, err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
 req.GetResource())

  params := url.Values{}
  if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from client and context metadata.
  hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

  hds
  = append(c.xGoogHeaders, hds...)
  hds = append(hds, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  opts =
 append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
 opts...)
  unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.Policy{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
  baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v",
"project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return
err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm
 := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
```

```
 }
 if req != nil && req.MaxResults != nil {
  params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req !=
nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return
err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
```

```
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption)
 (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
```

```
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx
 context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo
 *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}
```

```
// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done,
 all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
```

```
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
```

```
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

1.188 x-net 0.19.0

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1.189 x-sys 0.15.0

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1.190 x-crypto 0.16.0

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1.191 aws-aws-sdk-go-v2 1.10.4

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1.192 go-humanize 1.0.1

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1.193 go-toml 1.9.5

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.194 gax-go 2.12.0

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1.195 goleveldb 1.0.1-0.20220721030215-126854af5e6d

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1.196 otel-exporters-otlp-otlptrace-otlptracehttp 1.21.0

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1.197 hashstructure 2.0.2

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1.198 x-term 0.15.0

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1.199 otel-sdk-metric 1.21.0

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1.200 otel-sdk 1.21.0

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1.206 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.46.1

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1.207 go-retryablehttp 0.7.5

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1.208 aws-aws-sdk-go-v2-service-ssooidc 1.21.2

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```
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import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

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// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
```

```
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
        "type": "integer"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
        "type": "long"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
           "Name": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
              }
           },
           "Values": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
              "traits": {
                 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
              }
           },
```

```
        "Operator": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
             "traits": {
                "smithy.api#documentation": "<p>An operator for filtering results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
    },
    "output": {

      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
        },
        "smithy.api#idempotent": {}
    }
  },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
      "type": "structure",
      "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
          "traits": {
            "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
          "traits": {
            "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
          }
        },
        "HomeRegions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
      "type": "structure",
      "members": {
```

```
        "AmiId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
          }
        },
        "InstanceID": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
          }
        },
        "InstanceType": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The instance type of the resource.</p>"
          }

      },
        "AccountID": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
          }
        },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of the instance.</p>"
          }
        },
        "Region": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
          }
        },
        "UsageOperation": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
          }
        },
        "ProductCode": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
            }
          },
          "LastUpdatedTime": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
            }
          },
          "SubscriptionName": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
           }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
          {
```

```
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
          }
        ],

    "traits": {
          "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
          },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",

"x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
              "x-amzn-requestid",
              "x-amzn-trace-id"
            ]
          },
          "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
```

```
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The
 AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

             "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]
                }
              ],
```

```
 "type": "tree",
 "rules": [
    {

   "conditions": [
          {
             "fn": "booleanEquals",
             "argv": [
                {
                   "ref": "UseFIPS"
                },
                true
             ]
          }
       ],
       "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
       "type": "error"
    },
    {
       "conditions": [],
       "type": "tree",
       "rules": [
          {

      "conditions": [
                {
                   "fn": "booleanEquals",
                   "argv": [
                      {
                         "ref": "UseDualStack"
                      },
                      true
                   ]
                }
             ],
             "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
             "type": "error"
          },
          {
             "conditions": [],

"endpoint": {
                "url": {
                   "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
             },
```

```
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

    "argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ],

"assign": "PartitionResult"
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseFIPS"
                                            },
                                            true
```

```
                ]
              },

            {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {

                "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]

}
                      ]
                    },
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },

                       "supportsDualStack"
                          ]
                        }
```

```
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "type": "tree",
                "rules": [
                  {

        "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]

      },
          {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
            "type": "error"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {

    "ref": "UseFIPS"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
```

```
                                    {
                                      "conditions": [
                                        {
                                          "fn": "booleanEquals",
                                          "argv": [
                                            true,

        {
                                                "fn": "getAttr",
                                                "argv": [
                                                  {
                                                    "ref": "PartitionResult"
                                                  },
                                                  "supportsFIPS"
                                                ]
                                              }
                                            ]
                                          }
                                        ],
                                        "type": "tree",

                                  "rules": [
                                            {
                                              "conditions": [],
                                              "type": "tree",
                                              "rules": [
                                                {
                                                  "conditions": [],
                                                  "endpoint": {
                                                    "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                                    "properties": {},
                                                    "headers": {}

                                                  },
                                                  "type": "endpoint"
                                                }
                                              ]
                                            }
                                          ]
                                        },
                                        {
                                          "conditions": [],
                                          "error": "FIPS is enabled but this partition does not support FIPS",
                                          "type": "error"
                                        }
                                      ]
```

```
},
                                    {
                                       "conditions": [
                                          {
                                             "fn": "booleanEquals",
                                             "argv": [
                                                {
                                                   "ref": "UseDualStack"
                                                },
                                                true
                                             ]
                                          }
                                       ],
                                       "type": "tree",
                                       "rules": [
                                          {

                                        "conditions": [
                                                {
                                                   "fn": "booleanEquals",
                                                   "argv": [
                                                      true,
                                                      {
                                                         "fn": "getAttr",
                                                         "argv": [
                                                            {
                                                               "ref": "PartitionResult"
                                                            },
                                                            "supportsDualStack"
                                                         ]
                                                      }
                                                   ]
                                                }
                                             ],
                                             "type": "tree",
                                             "rules": [
                                                {
                                                   "conditions": [],
                                                   "type": "tree",
                                                   "rules": [
                                                      {
                                                         "conditions": [],

                                                    "endpoint": {
                                                            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                            "properties": {},
                                                            "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {

"endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
```

```
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {

      "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
         "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
```

```
{
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
```

```
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
       "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
       }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
            }
        },
        {

    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {

             "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
```

```
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",

    "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

      "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
```

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
```

```
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
          "type": "structure",
          "members": {
            "SourceRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
               "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "OrganizationIntegration": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
              "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
          "type":
 "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
              "method": "POST",
              "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "Instances"
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
          "type": "structure",
          "members": {
            "Filters": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n      <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>AmiID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>AccountID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Status</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Region</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>UsageOperation</code>\n      </p>\n      </li>\n      <li>\n
    <p>\n      <code>ProductCode</code>\n      </p>\n      </li>\n      <li>\n      <p>\n
     <code>InstanceType</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n
        <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
        }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n
      <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {

              "min": 1,
                "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "Subscriptions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
          "traits": {
            "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "EQUAL",
            "value": "Equal",
            "documentation": "Equal operator"
          },
          {
            "name": "NOT_EQUAL",
            "value": "NotEqual",
```

```
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
```

```
            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
            },
            {
              "name": "Failed",
              "value": "Failed",
              "documentation": "Failed status"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
          "target": "smithy.api#String"
        },
        "value": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

```
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
      },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
            "smithy.api#required": {}
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
```

```
  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
```

```
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
          }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
          "type": "structure",
          "members": {
              "message": {
                  "target": "smithy.api#String"
              }
          },
          "traits": {
              "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
              "smithy.api#error": "client"
          }
      }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
```

```
// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 OperationName:
"CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
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package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

```
"<p>Details about an Active Directory identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n          <note>\n          <p>Your estimated bill for charges on the number of users and related
costs will take 48\n          hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
          monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n          </note>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required": {}
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>The identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
           "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
      "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

```
subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                 "smithy.api#required": {}
               }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/DisassociateUser"
          },
          "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
```

```
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
```

```
            "traits": {
                "smithy.api#documentation": "<p>An object that details the registered identity providers product related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
```

```
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "InstanceId": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
```

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
            "sdkId": "License Manager User Subscriptions",
            "arnNamespace": "license-manager-user-subscriptions",
            "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-user-subscriptions"
           },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",
              "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
```

```
                "x-amzn-requestid",
                "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
              "version": "1.0",
              "parameters": {
                "Region": {
                  "builtIn": "AWS::Region",
                  "required": false,
                  "documentation": "The AWS region used to dispatch the request.",
                  "type": "String"
                },
                "UseDualStack": {
                  "builtIn": "AWS::UseDualStack",
                  "required": true,
                  "default": false,
                  "documentation": "When true, use the dual-stack
 endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                  "type": "Boolean"
                },
                "UseFIPS": {
                  "builtIn": "AWS::UseFIPS",
                  "required": true,
                  "default": false,
                  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
                  "type": "Boolean"
                },
                "Endpoint": {
                  "builtIn": "SDK::Endpoint",
                  "required": false,
                  "documentation": "Override the endpoint used to send this request",
                  "type": "String"
                }

            },
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "isSet",
                    "argv": [
                      {
```

```
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },

                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],

      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
```

```
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [

    {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",

"rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
```

```
                "ref": "UseDualStack"

              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",

"argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              },
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

        "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
```

```
            "conditions": [],
                                    "endpoint": {
                                       "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                       "properties": {},
                                       "headers": {}
                                    },
                                    "type": "endpoint"
                                 }
                              ]
                           },
                           {
                              "conditions": [],
                              "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                               "type": "error"
                           }
                        ]
                     },
                     {
                        "conditions": [
                           {
                              "fn": "booleanEquals",
                              "argv": [
                                 {
                                    "ref": "UseFIPS"
                                 },
                                 true
                              ]
                           }
                        ],
                        "type": "tree",

         "rules": [
                           {
                              "conditions": [
                                 {
                                    "fn": "booleanEquals",
                                    "argv": [
                                       true,
                                       {
                                          "fn": "getAttr",
                                          "argv": [
                                             {
                                                "ref": "PartitionResult"
                                             },
                                             "supportsFIPS"
```

```
                                    ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                },
                                    "type": "endpoint"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
```

```
                                    "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {

                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does
 not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
```

```
        },
        {
          "conditions":
[],
          "error": "Invalid Configuration: Missing Region",
          "type": "error"
        }
      ]
    },
    "smithy.rules#endpointTests": {
      "testCases": [
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
            }
          },

        "params": {
            "Region": "us-east-1",
```

```
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },

      "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },

  "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
```

```
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
                "endpoint": {
```

```
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack":
true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
```

```
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                 "url": "https://example.com"
              }
            },
            "params": {
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
               "UseFIPS": true,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": true,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
               "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
```

```
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/identity-provider/ListIdentityProviders"
        },
        "smithy.api#paginated":
{
          "inputToken": "NextToken",
          "outputToken": "NextToken",
          "pageSize": "MaxResults",
          "items": "IdentityProviderSummaries"
        }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
          "type":
 "structure",
          "members": {
            "InstanceSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
           },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "ProductUserSummaries"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
          "type": "structure",
          "members": {
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
 that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
```

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }

},
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of a product for a user.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusMessage": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        },
        "SubscriptionStartDate": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
            }
          },
          "SubscriptionEndDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The end date of a subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
```

```
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
              },
              {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
              }
            ],
            "traits": {
              "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
              "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
              },
              "smithy.api#idempotent": {}
            }
          },
          "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
            "type": "structure",
            "members": {
              "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                  "smithy.api#required": {}
                }
              },
              "Product": {
                "target": "smithy.api#String",
                "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
                }
              },
              "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                  "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
              }
            }
          },
          "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
            "type": "structure",
            "members": {
              "IdentityProviderSummary":
```

```
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
```

```
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/StartProductSubscription"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {

           "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

```
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
        "UpdateSettings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n <ul>\n <li>\n <p>Subnets which you want to add to provision VPC endpoints.</p>\n </li>\n <li>\n <p>Subnets which you want to remove the VPC endpoints from.</p>\n </li>\n <li>\n <p>Security group ID which permits traffic to the VPC endpoints.</p>\n </li>\n </ul>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
      "type": "structure",
      "members": {
        "IdentityProviderSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
          "traits": {
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
      "type": "structure",
      "members": {
        "AddSubnets": {

         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
```

```
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for activation servers.</p>"
                }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings such as\n      the subnets to provision VPC endpoints.</p>"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
          "type": "structure",
          "members": {
            "message": {
              "target": "smithy.api#String"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
          }
        }
      }
    }
    {
      "smithy": "2.0",
      "metadata": {
        "suppressions": [
          {
            "id": "HttpMethodSemantics",
            "namespace": "*"
          },
          {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
          },
          {
            "id": "PaginatedTrait",
            "namespace": "*"
          },
          {
            "id": "HttpHeaderTrait",
            "namespace": "*"
          },
          {
            "id": "HttpUriConflict",
            "namespace": "*"
          },
```

```
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
    "type": "service",
    "version": "2018-08-01",
    "operations": [
      {
        "target": "com.amazonaws.licensemanager#AcceptGrant"
      },

{
        "target": "com.amazonaws.licensemanager#CheckInLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrant"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
       },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateToken"
      },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
     },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
```

```
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
   "target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
   "target": "com.amazonaws.licensemanager#ListTokens"
},
{
   "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
{
```

```
            "target": "com.amazonaws.licensemanager#RejectGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#TagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UntagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
             "sdkId": "License Manager",
            "arnNamespace": "license-manager",
            "cloudFormationName": "LicenseManager",
            "cloudTrailEventSource": "licensemanager.amazonaws.com",
            "endpointPrefix": "license-manager"
          },
          "aws.auth#sigv4": {
            "name": "license-manager"
          },
          "aws.protocols#awsJson1_1": {},
          "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
          "smithy.api#title": "AWS License Manager",
          "smithy.api#xmlNamespace": {
            "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
          },
          "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
              "Region": {
                "builtIn": "AWS::Region",
                "required": false,
                "documentation": "The AWS region used to dispatch the request.",
                "type": "String"
              },
```

```
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send
 this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant
endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]

                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
```

```
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {

"conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
               },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Region"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
```

```
                {
                  "conditions": [
                    {
                      "fn": "aws.partition",
                      "argv": [
                        {
                          "ref": "Region"
                        }
                      ],
                      "assign": "PartitionResult"
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref":
"UseFIPS"
                            },
                            true
                          ]
                        },
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
```

```
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]

                        }
                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },

    "supportsDualStack"
                            ]
                        }
                    ]
                }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

                    },
                        "type": "endpoint"
                    }
                ]
                },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                    "type": "error"
                }
            ]
        },
```

```
    {
      "conditions": [
        {
          "fn": "booleanEquals",

       "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                true,

{
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [

{
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
```

```
                                {
                                    "conditions": [],
                                    "error": "FIPS is enabled but this
partition does not support FIPS",
                                    "type": "error"
                                }
                            ]
                        },
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        {
                                            "ref": "UseDualStack"
                                        },
                                        true
                                    ]
                                }
                            ],
                            "type": "tree",
                             "rules": [
                                {
                                    "conditions": [
                                        {
                                            "fn": "booleanEquals",
                                            "argv": [
                                                true,
                                                {
                                                    "fn": "getAttr",
                                                    "argv": [
                                                        {
                                                            "ref": "PartitionResult"
                                                        },

    "supportsDualStack"
                                                    ]
                                                }
                                            ]
                                        }
                                    ],
                                    "type": "tree",
                                    "rules": [
                                        {
                                            "conditions": [],
                                            "endpoint": {
                                                "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
```

```
                                "properties": {},
                                "headers": {}

                            },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                     "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
  ]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
```

```
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
```

```
      },
      "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
      }

},
    {
      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
      },
      "params": {
        "Region": "ap-southeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-southeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
```

```
        {

    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
          },

         "params": {
            "Region": "ca-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-north-1.amazonaws.com"
            }
```

```
      },
      "params": {
        "Region": "eu-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region":
"eu-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {

      "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
```

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        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.sa-east-1.amazonaws.com"
             }
          },
          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
            }
          },
          "params": {
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            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }

},
        {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
        },
        {
        "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.us-east-2.amazonaws.com"
            }

        },
        "params": {
            "Region": "us-east-2",
            "UseFIPS": false,
            "UseDualStack": false
        }
        },
        {
        "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-fips.us-east-2.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-2",
            "UseFIPS": true,
            "UseDualStack": false
        }
        },
        {
        "documentation": "For region
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us-west-1 with FIPS disabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager.us-west-1.amazonaws.com"
                      }
                    },
                    "params": {
                      "Region": "us-west-1",
                      "UseFIPS": false,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager-fips.us-west-1.amazonaws.com"
                      }
                    },
                    "params": {

              "Region": "us-west-1",
                      "UseFIPS": true,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager.us-west-2.amazonaws.com"
                      }
                    },
                    "params": {
                      "Region": "us-west-2",
                      "UseFIPS": false,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
                      "endpoint": {
                        "url": "https://license-manager-fips.us-west-2.amazonaws.com"
                      }
                    },
                    "params": {
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            "Region": "us-west-2",
            "UseFIPS": true,
            "UseDualStack": false
          }
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          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,

            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack": false

}
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
         }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
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    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
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            "UseDualStack": true
          }
        },

        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
           },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
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                "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.api.aws"
              }
            },

      "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-gov-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
```

```
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled
but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
```

```
            "UseDualStack": false
          }
        },

        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },

    "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
```

```
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,

    "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack enabled",
      "expect": {
        "error":
 "Invalid Configuration: Dualstack and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
      }
    },
    {
```

```
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
```

```
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant
ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
```

```
      "traits": {
        "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
      "type": "enum",
      "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
          }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

   "type": "enum",
      "members": {
        "CREATE_GRANT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CreateGrant"
          }
        },
        "CHECKOUT_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutLicense"
          }
        },
        "CHECKOUT_BORROW_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutBorrowLicense"
```

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#AuthorizationException"

            },
                {
                    "target": "com.amazonaws.licensemanager#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
            }
        },
        "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
            "type": "structure",
            "members": {
                "LicenseConsumptionToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License consumption token.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Beneficiary": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License beneficiary.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
```

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },
            "EntitlementsAllowed":
{
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
```

```
            "IssuedAt": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
               }
            },
            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
               }
            },
            "CheckoutMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about constraints.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
          },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n        <p>If the
 account that created the license is the same that is performing the check out, you must\n        specify the account
 as the beneficiary.</p>\n        </note>"
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
          "type": "structure",
          "members": {
            "ProductSKU": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product
 SKU.</p>",
                "smithy.api#required": {}
              }
            },
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>",
                "smithy.api#required": {}
              }
            },
            "KeyFingerprint": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                "smithy.api#required": {}
              }
            },
```

```
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",

      "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Beneficiary": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            }
          },
          "traits": {

         "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
          "type": "structure",
          "members": {
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
```

```
            },
            "EntitlementsAllowed": {
               "target": "com.amazonaws.licensemanager#EntitlementDataList",
               "traits": {
                  "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
               }
            },
             "SignedToken": {
               "target": "com.amazonaws.licensemanager#SignedToken",
               "traits": {
                  "smithy.api#documentation": "<p>Signed token.</p>"
               }
            },
            "NodeId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Node ID.</p>"
               }
            },
            "IssuedAt": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
               }
            },
            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
               }
            },
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutType": {
         "type": "enum",
         "members": {
            "PROVISIONAL": {
               "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
      },
      "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
```

```
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

"traits": {
          "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
          },
          "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
          },
          "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target":
 "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
 license\n            entitlements with a specific Amazon Web Services account, an organization, or an\n
 organizational unit (OU). For more
  information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
 licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrantRequest": {
```

```
        "type": "structure",
        "members": {
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}

    }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n        <li>\n        <p>An Amazon Web Services
account, which includes only the account specified.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n        </li>\n        </ul>\n
<ul>\n
        <li>\n        <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersion":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
    "traits": {
      "smithy.api#documentation": "<p>Creates a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
       },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Name of the license configuration.</p>",
```

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                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
             "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
          <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
```

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": " Tags to add to the license configuration. "
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": " Product information. "
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                 }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
```

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the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
{
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

          "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

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            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
              "smithy.api#required": {}

        }
          },
```

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            "ReportContext": {
              "target": "com.amazonaws.licensemanager#ReportContext",
              "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
              }
            },
            "ReportFrequency": {
              "target": "com.amazonaws.licensemanager#ReportFrequency",
              "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientRequestToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique,
 case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
              "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn":
 {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>",
              "smithy.api#required": {}
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
              "smithy.api#documentation": "<p>License issuer.</p>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region for the license.</p>",
              "smithy.api#required": {}
```

```
    }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>",
            "smithy.api#required": {}
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        }
      },
```

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

```
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
```

```
            "traits":
{
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "SourceVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
              }
            }
          },
          "traits": {

 "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseStatus",
              "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output":
```

```
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n          <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits":
{
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                "smithy.api#required": {}
            }
        },
        "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
            }
        },
        "ExpirationInDays": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
            }
        },
        "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n          to the amr claim of the JWT token.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
```

```
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

```
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

  "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
```

```
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
         "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
         "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
         {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
         {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
         {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
         {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
         {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
         {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
         },

    {
            "target": "com.amazonaws.licensemanager#ValidationException"
         }
      ],
      "traits": {
         "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
         "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token ID.</p>",
               "smithy.api#required": {}
            }
         }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}

        }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
          "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "JWT_PS384"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
            }
          },
          "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
              "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
          },
          "Overage": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target":
"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement
data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Bytes"
            }
          },
          "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes"
            }
          },
          "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes"
            }
          },
          "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes"
            }
          },
          "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabytes"
            }
          },
          "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bits"
            }
          },
          "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobits"
            }
          },
          "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

```
            "BITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Bits/Second"
              }
            },
            "KILOBITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
              }
            },
            "MEGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
              }
            },
            "GIGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
          "type": "structure",
```

```
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Bytes"
      }
    },
    "KILOBYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Kilobytes"
       }
    },
    "MEGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabytes"
      }
    },
    "GIGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabytes"
      }
    },
    "TERABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabytes"
      }
    },
    "BITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Bits"
      }
    },
    "KILOBITS": {
      "target": "smithy.api#Unit",
      "traits": {

       "smithy.api#enumValue": "Kilobits"
      }
    },
    "MEGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits"
      }
    },
    "GIGABITS": {
      "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
          },
          "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes/Second"
            }
          },
          "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes/Second"
            }
          },
          "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes/Second"
            }
          },
          "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Terabytes/Second"
            }
          },
```

```
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },

     "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
          }
        },
        "COUNT_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count/Second"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage name.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "ConsumedValue": {
          "target": "com.amazonaws.licensemanager#String",

        "traits": {
            "smithy.api#documentation": "<p>Resource usage consumed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxCount": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
          }
        },
        "Unit": {
          "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
         "type": "structure",
         "members": {
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>",
                  "smithy.api#required": {}

          }
            },
            "DryRun": {
               "target": "com.amazonaws.licensemanager#Boolean",
               "traits": {
                  "smithy.api#default": false,
                  "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
         "type": "structure",
         "members": {
```

```
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },

            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#FailedDependencyException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
              "target": "com.amazonaws.licensemanager#String"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "FailedDependency",
              "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
          }
        },
        "com.amazonaws.licensemanager#Filter": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#FilterName",
              "traits": {
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
              }
            },
```

```
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
```

```
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
             "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
```

```
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
              "smithy.api#required": {}
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
              "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenResponse":
{
        "type": "structure",
        "members": {
          "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
```

```
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
```

```
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
      "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
  },
  "ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
          }

    },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
          }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
          }
        },
        "Tags": {
          "target": "com.amazonaws.licensemanager#TagList",
           "traits": {
            "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {
          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        },
        "DisassociateWhenNotFound": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
                "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
```

```
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
      "type": "structure",
      "members": {
        "LicenseConversionTaskId": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
          }
        },
        "SourceLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
          }
        },
        "DestinationLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
          }
```

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
      },
      "errors": [
        {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
               }
            },
            "OrganizationConfiguration": {
               "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
               }
            },
            "EnableCrossAccountsDiscovery": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
               }

         },
            "LicenseManagerResourceShareArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#Grant": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                  "smithy.api#required": {}
               }
            },
            "GrantName": {
```

```
 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                 }
            },
```

```
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
              }
            },
            "Options": {
              "target": "com.amazonaws.licensemanager#Options",
              "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#GrantList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Grant"
          }
        },
        "com.amazonaws.licensemanager#GrantStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
              }
            },
            "REJECTED": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

          }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
```

```
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
          }

    },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
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ISO8601-UTC format.</p>"
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>"
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
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            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
```

```
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidResourceState",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },

      "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
              "smithy.api#documentation": "<p>Condition of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
          "EQUALS": {
            "target": "smithy.api#Unit",
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            "traits": {
              "smithy.api#enumValue": "EQUALS"
            }
          },
          "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "NOT_EQUALS"
            }
          },
          "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "BEGINS_WITH"
            }
          },
          "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
               "smithy.api#enumValue": "CONTAINS"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
      },
      "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>",
              "smithy.api#required": {}
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage
 of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>"
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n          and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

           "smithy.api#documentation": "<p>License name.</p>"
            }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {
```

```
    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
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```
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
          }
        },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

       }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {

          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
          "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
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        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
```

```
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
                }
            },

        "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from.  For more information about which platforms correspond to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
```

```
            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

         "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
```

```
            },
            "FAILED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "FAILED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
         }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
         "type": "enum",
         "members": {
            "VCPU": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "vCPU"
               }
            },
            "INSTANCE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Instance"
               }
            },
            "CORE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Core"
               }
            },
            "SOCKET": {
               "target": "smithy.api#Unit",
                "traits": {
                  "smithy.api#enumValue": "Socket"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseDeletionStatus": {
         "type": "enum",
         "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {

              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
            "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",

          "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
            }
          },
          "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
            }
```

```
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlement usages.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

      }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "LicenseUsageFailure",
          "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
         },
         "output": {

      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n         <p>Resource associations need not consume licenses from a license
configuration. \n         For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
         "type": "structure",
         "members": {
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results
to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
```

\n \n <code>GranteePrincipalARN</code>\n \n \n
\n \n <code>ProductSKU</code>\n \n \n \n
\n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

```
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
              }
            },
            "traits": {
              "smithy.api#input": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
            "type": "structure",
            "members": {
              "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
              },
              "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#output": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
            "type": "operation",
            "input": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
            },
            "output": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
            },
            "errors": [
              {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
              },
              {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
              },
              {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
              },
              {
```

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                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

   "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n       <ul>\n          <li>\n             <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n       </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits":
{
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
```

```
        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
```

```
            "traits": {

      "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
          "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

      "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
            }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

```
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {

   "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while
   specifying the\n         recipient as this Amazon Web Services account, your organization, or an organizational unit\n
      (OU) to which this member account belongs.</p>"
         }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
            "smithy.api#required": {}
          }
        },
        "Filters": {
```

```
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n      <li>\n      <p>\n      <code>ParentArn</code>\n      </p>\n      </li>\n
<li>\n      <p>\n      <code>GranteePrincipalArn</code>\n      </p>\n      </li>\n      </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
```

```
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicenses": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
```

```
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {

      "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
              "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

         "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
               "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
          "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "Filters": {
        "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> |  \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
```

```
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Token IDs.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
      "type": "structure",
      "members": {
        "Tokens": {
          "target": "com.amazonaws.licensemanager#TokenList",
          "traits": {
            "smithy.api#documentation": "<p>Received token details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n        <li>\n        <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
          Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n        </li>\n
 <li>\n        <p>\n        <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n        Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n        </li>\n        <li>\n        <p>\n
    <code>resourceAccount</code> - The ID of the account that owns the resource. \n        Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n        </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
          "type": "structure",
          "members": {

 "LicenseConfigurationUsageList": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#String"
   },
   "traits": {
      "smithy.api#length": {
         "min": 0,
         "max": 3
      }
   }
},
"com.amazonaws.licensemanager#Message": {
   "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
   "type": "structure",
   "members": {
      "Name": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The key name.</p>"
         }
      },

"Value": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The value.</p>"
         }
      }
   },
   "traits": {
      "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
   }
},
"com.amazonaws.licensemanager#MetadataList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#Metadata"
   }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
```

```
"<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n          <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n          <p>The following filters and are supported when
the resource type \n          is <code>SSM_MANAGED</code>:</p>\n
          <ul>\n            <li>\n              <p>\n                <code>Application Name</code> - The name of the
application.\n              Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n              Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n
<code>Application Version</code> - The version of the application.\n              Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n                <code>Platform
```

```
Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>.</p>\n
</li>\n <li>\n <p>\n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
</li>\n <li>\n <p>\n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n </p>\n </li>\n <li>\n <p>\n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n </li>\n
<li>\n <p>\n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
<code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-
web</code> | \n <code>windows-server-datacenter</code>.</p>\n </li>\n </ul>\n
<p>The following filters and logical operators are supported when the resource type\n is
<code>RDS</code>:</p>\n <ul>\n <li>\n <p>\n <code>Engine Edition</code> -
The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p>\n </li>\n <li>\n <p>\n <code>License Pack</code> - The license
pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data
guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>.</p>\n
</li>\n </ul>",
                "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationFilter": {
        "type": "structure",
        "members": {
          "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Filter name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

          "traits": {
              "smithy.api#documentation": "<p>Filter value.</p>"
            }
          },
```

```
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
       }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
      "type": "structure",
      "members": {
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
```

```
            "aws.protocols#awsQueryError": {
              "code": "RateLimitExceeded",
              "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
          }
        },
        "com.amazonaws.licensemanager#ReceivedMetadata": {
          "type": "structure",
          "members": {
            "ReceivedStatus": {
              "target": "com.amazonaws.licensemanager#ReceivedStatus",
              "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
              }
            },
            "ReceivedStatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
              "traits": {
                "smithy.api#documentation": "<p>Received
 status reason.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReceivedStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
          "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

```
            "NONE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "None"
              }
            },
            "WEEKLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Weekly"
              }
            },
            "MONTHLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Monthly"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {
            "licenseConfigurationArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {

          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n         The only supported value is <code>1</code>.</p>"
              }
            },
            "period": {
```

```
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
          },
          "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
```

```
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }

      }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
         "type": "string",
         "traits": {
            "smithy.api#length": {
               "min": 1,
               "max": 100
            }
         }
      },
      "com.amazonaws.licensemanager#ReportType": {
```

```
      "type": "enum",
      "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
          }

    },
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationUsageReport"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
      }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
      "type": "structure",
      "members": {
        "ResourceId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits":
{
            "smithy.api#documentation": "<p>Type of resource.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "Platform": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Platform of the resource.</p>"
              }
            },
            "PlatformVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
              }
            },
            "ResourceOwningAccountId":
{
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#ResourceInventoryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
          }
        },
        "com.amazonaws.licensemanager#ResourceLimitExceededException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "ResourceLimitExceeded",

               "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        },
        "com.amazonaws.licensemanager#ResourceNotFoundException": {
          "type": "structure",
          "members": {
```

```
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "RDS"
        }
      },
      "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
           "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
        }
      }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

```
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Data specified by the caller.</p>"
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
            }
          }
        },
        "traits": {

          "smithy.api#documentation": "<p>Describes a token.</p>"
        }
      },
      "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#TokenData"
        }
      },
      "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 4096
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
          "REFRESH_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REFRESH_TOKEN"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

```
    "com.amazonaws.licensemanager#UntagResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
             "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

  "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
  configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New description of the license configuration.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>New product information.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

```
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n        <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n        </li>\n        <li>\n        <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n        </li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>The report context.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits":
 {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
```

```
        }
      },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
            "smithy.api#required": {}
          }
        },
        "AddLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
          }
        },
        "RemoveLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

            }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 50
                }
            }
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

            "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.209 aws-aws-sdk-go-v2 1.10.3

1.209.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "AssociateLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
```

```
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
```

```
            "traits": {
              "smithy.api#documentation": "<p>An operator for filtering results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
```

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{
        "type": "structure",
        "members": {}
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    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
          },
          "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
          },
          "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

        },
          "AccountID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of the instance.</p>"
            }
          },
          "Region": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
            }
          },
          "UsageOperation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
            }
          },
          "ProductCode": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-linux-subscriptions"
            },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",

 "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"
                ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
```

```
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The
 AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

             "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]
                }
              ],
              "type": "tree",
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"rules": [
    {

   "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
               {
                  "ref": "UseFIPS"
               },
               true
            ]
          }
       ],
       "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
       "type": "error"
    },
    {
       "conditions": [],
       "type": "tree",
       "rules": [
          {

     "conditions": [
                {
                   "fn": "booleanEquals",
                   "argv": [
                      {
                         "ref": "UseDualStack"
                      },
                      true
                   ]
                }
             ],
             "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
             "type": "error"
          },
          {
             "conditions": [],

"endpoint": {
                "url": {
                   "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
             },
             "type": "endpoint"
```

```
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

"argv": [
                                {
                                    "ref": "Region"
                                }
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "aws.partition",
                                    "argv": [
                                        {
                                            "ref": "Region"
                                        }
                                    ],

"assign": "PartitionResult"
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [
                                        {
                                            "fn": "booleanEquals",
                                            "argv": [
                                                {
                                                    "ref": "UseFIPS"
                                                },
                                                true
                                            ]
```

```
                    },

                {
                    "fn": "booleanEquals",
                    "argv": [
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                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
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                    "conditions": [
                        {

                    "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]

}
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                     "supportsDualStack"
                                        ]
                                    }
                                ]
```

```
                }
            ],
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            "rules": [
                {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                        {

                "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]

        },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
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          "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
```

```
                "conditions": [
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                    "fn": "booleanEquals",
                    "argv": [
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{
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",

              "rules": [
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                    "conditions": [],
                    "type": "tree",
                    "rules": [
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                        "conditions": [],
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                          "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                          "properties": {},
                          "headers": {}

                        },
                        "type": "endpoint"
                      }
                    ]
                  }
                ]
              },
              {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
              }
            ]
```

```
},
                                {
                                   "conditions": [
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                                         "fn": "booleanEquals",
                                         "argv": [
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                                               "ref": "UseDualStack"
                                            },
                                            true
                                         ]
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                                   "type": "tree",
                                   "rules": [
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                                            {
                                               "fn": "booleanEquals",
                                               "argv": [
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                                                  {
                                                     "fn": "getAttr",
                                                     "argv": [
                                                        {
                                                           "ref": "PartitionResult"
                                                        },
                                                        "supportsDualStack"
                                                     ]
                                                  }
                                               ]
                                            }
                                         ],
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                                         "rules": [
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                                               "rules": [
                                                  {
                                                     "conditions": [],

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                         "properties": {},
                                                         "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
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                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {

"endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
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```
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {

      "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
         "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
```

```
{
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
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                "UseDualStack": false
            }
        },
        {
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            "expect": {
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{
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
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```
    }
  },
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    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
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        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
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      "UseFIPS": false,
       "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
       }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
            }
        },
        {

    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {

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              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
```

```
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",

    "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

      "expect": {
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                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
```

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
```

```
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
          "type": "structure",
          "members": {
            "SourceRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
               "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "OrganizationIntegration": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
              "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
          "type":
 "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
              "method": "POST",
              "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "Instances"
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
          "type": "structure",
          "members": {
            "Filters": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n      <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>AmiID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>AccountID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Status</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Region</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>UsageOperation</code>\n      </p>\n      </li>\n      <li>\n
    <p>\n      <code>ProductCode</code>\n      </p>\n      </li>\n      <li>\n      <p>\n
     <code>InstanceType</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n
        <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
        }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n
      <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n
          <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {

              "min": 1,
                "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "Subscriptions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
          "traits": {
            "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "EQUAL",
            "value": "Equal",
            "documentation": "Equal operator"
          },
          {
            "name": "NOT_EQUAL",
            "value": "NotEqual",
```

```
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
```

```
                {
                    "name": "Completed",
                    "value": "Completed",
                    "documentation": "Completed status"
                },
                {
                    "name": "Successful",
                    "value": "Successful",
                    "documentation": "Successful status"
                },
                {
                    "name": "Failed",
                    "value": "Failed",
                    "documentation": "Failed status"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

```
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
      },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
            "smithy.api#required": {}
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
```

```
  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
```

```
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
          "type": "structure",
          "members": {
            "message": {
              "target": "smithy.api#String"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
          }
        }
    }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
  - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
```

```
// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 OperationName:
"CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```

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LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

```
"<p>Details about an Active Directory identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n          <note>\n          <p>Your estimated bill for charges on the number of users and related
costs will take 48\n          hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
          monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n          </note>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required": {}
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>The identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
           "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
      "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

```
subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                 "smithy.api#required": {}
               }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/DisassociateUser"
          },
          "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
```

```
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
```

```
            "traits": {
                "smithy.api#documentation": "<p>An object that details the registered identity providers product related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
```

```
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "InstanceId": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
```

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
          }
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        "traits": {
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            "sdkId": "License Manager User Subscriptions",
            "arnNamespace": "license-manager-user-subscriptions",
            "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-user-subscriptions"
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          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
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              "content-type",
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              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",
              "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
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```
                "x-amzn-requestid",
                "x-amzn-trace-id"

 ]
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            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
              "version": "1.0",
              "parameters": {
                "Region": {
                  "builtIn": "AWS::Region",
                  "required": false,
                  "documentation": "The AWS region used to dispatch the request.",
                  "type": "String"
                },
                "UseDualStack": {
                  "builtIn": "AWS::UseDualStack",
                  "required": true,
                  "default": false,
                  "documentation": "When true, use the dual-stack
 endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                  "type": "Boolean"
                },
                "UseFIPS": {
                  "builtIn": "AWS::UseFIPS",
                  "required": true,
                  "default": false,
                  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
                  "type": "Boolean"
                },
                "Endpoint": {
                  "builtIn": "SDK::Endpoint",
                  "required": false,
                  "documentation": "Override the endpoint used to send this request",
                  "type": "String"
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                    "argv": [
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```

```
                "ref": "Endpoint"
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        "rules": [
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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },

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                ]
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            "type": "error"
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            "type": "error"
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                "ref": "Endpoint"
              },
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            },
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                    "ref": "Region"
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                ]
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                    "argv": [
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                        "ref": "Region"
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                    ],
                    "assign": "PartitionResult"
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                "type": "tree",

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                        "argv": [
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                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },
                      {
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                        "argv": [
                          {
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```
                "ref": "UseDualStack"

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                "argv": [
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                    "fn": "getAttr",

"argv": [
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                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
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              {
                "fn": "booleanEquals",
                "argv": [
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                  {

        "fn": "getAttr",
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                        },
                        "supportsDualStack"
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                    }
                  ]
                }
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```
            "conditions": [],
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                                       "headers": {}
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                                    "type": "endpoint"
                                 }
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                           },
                           {
                              "conditions": [],
                              "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                               "type": "error"
                           }
                        ]
                     },
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                           {
                              "fn": "booleanEquals",
                              "argv": [
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                                    "ref": "UseFIPS"
                                 },
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                                          "argv": [
                                             {
                                                "ref": "PartitionResult"
                                             },
                                             "supportsFIPS"
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                            "type": "error"
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                                        {
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                                    "headers": {}
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                                "type": "endpoint"
                            }
                        ]
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                        "conditions": [],
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                        "type": "error"
                    }
                ]
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            {
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
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            },
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              "type": "error"
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              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
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"For region us-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
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                }
              },
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                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
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            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
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                }
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            "params": {
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            "UseFIPS": false,
            "UseDualStack": true
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          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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 FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
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1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
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          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },

      "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
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        },
        {
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      "params": {
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        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
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        }
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        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
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        "UseDualStack": true
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        }
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                "UseDualStack": false
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            "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
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                }
            },
            "params": {
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                "UseFIPS": false,
                "UseDualStack": true
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                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },

    "params": {
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                "UseDualStack": false
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            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
                "endpoint": {
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```
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack":
true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
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this partition does not support one or both"
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            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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          "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
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        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
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      "params": {
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        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
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```
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
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                }
            },
            "params": {
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                 "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                 "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
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            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "IdentityProviderSummaries"
            }
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        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
```

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            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
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            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

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                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
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            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
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 "structure",
          "members": {
            "InstanceSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
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          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
           },
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            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "ProductUserSummaries"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
          "type": "structure",
          "members": {
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
 that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
```

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }

},
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of a product for a user.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusMessage": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        },
        "SubscriptionStartDate": {
```

```
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
```

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                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
```

```
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 404
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

  "traits": {
            "smithy.api#length": {
                "min": 5,
                "max": 200
            },
            "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
```

```
        "members": {
          "Subnets": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
            "traits": {
              "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
              "smithy.api#length": {
                "min": 1
              },
              "smithy.api#required": {}
            }
          },
          "SecurityGroupId": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
            "traits": {
              "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n         <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n         hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n         monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n         </note>",
            "smithy.api#http": {
               "code": 200,
               "method": "POST",
               "uri": "/user/StartProductSubscription"
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
         "type": "structure",
         "members": {
            "Username": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "Product": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
             "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {

           "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

```
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/UpdateIdentityProviderSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
             "traits": {
               "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
```

```
        "UpdateSettings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n          <li>\n            <p>Subnets which you want to add to provision VPC endpoints.</p>\n          </li>\n
        <li>\n            <p>Subnets which you want to remove the VPC endpoints from.</p>\n          </li>\n
<li>\n            <p>Security group ID which permits traffic to the VPC endpoints.</p>\n          </li>\n        </ul>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
      "type": "structure",
      "members": {
        "IdentityProviderSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
          "traits": {
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
      "type": "structure",
      "members": {
        "AddSubnets": {

         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
```

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 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for activation servers.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings such as\n      the subnets to provision VPC endpoints.</p>"
            }
          },
          "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
            "type": "structure",
            "members": {
              "message": {
                "target": "smithy.api#String"
              }
            },
            "traits": {
              "smithy.api#documentation": "<p>A parameter is not valid.</p>",
              "smithy.api#error": "client"
            }
          }
        }
      }
      {
        "smithy": "2.0",
        "metadata": {
          "suppressions": [
            {
              "id": "HttpMethodSemantics",
              "namespace": "*"
            },
            {
              "id": "HttpResponseCodeSemantics",
              "namespace": "*"
            },
            {
              "id": "PaginatedTrait",
              "namespace": "*"
            },
            {
              "id": "HttpHeaderTrait",
              "namespace": "*"
            },
            {
              "id": "HttpUriConflict",
              "namespace": "*"
            },
```

```
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
    "type": "service",
    "version": "2018-08-01",
    "operations": [
      {
        "target": "com.amazonaws.licensemanager#AcceptGrant"
      },

{
        "target": "com.amazonaws.licensemanager#CheckInLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrant"
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        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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        "target": "com.amazonaws.licensemanager#CreateToken"
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    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
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      "target": "com.amazonaws.licensemanager#GetServiceSettings"
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      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
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   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
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   "target": "com.amazonaws.licensemanager#ListLicenses"
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   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

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   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
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},
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},
{
   "target": "com.amazonaws.licensemanager#ListTokens"
},
{
   "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
{
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            "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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            "arnNamespace": "license-manager",
            "cloudFormationName": "LicenseManager",
            "cloudTrailEventSource": "licensemanager.amazonaws.com",
            "endpointPrefix": "license-manager"
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          "aws.auth#sigv4": {
            "name": "license-manager"
          },
          "aws.protocols#awsJson1_1": {},
          "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
          "smithy.api#title": "AWS License Manager",
          "smithy.api#xmlNamespace": {
            "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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          "smithy.rules#endpointRuleSet": {
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            "parameters": {
              "Region": {
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                "required": false,
                "documentation": "The AWS region used to dispatch the request.",
                "type": "String"
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              "default": false,
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support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
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            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send
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endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
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                    }
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                  "conditions": [
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                      "argv": [
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                          "ref": "UseFIPS"
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                ]
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            "type": "error"
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            "type": "error"
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            "argv": [
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                            ]

                        }
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                        "type": "endpoint"
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both",
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                ]
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                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
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            ]
          },
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partition does not support FIPS",
                                        "type": "error"
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                                                        "argv": [
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                                                                "ref": "PartitionResult"
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                        "type": "error"
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                    "headers": {}
                },
                "type": "endpoint"
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  "type": "error"
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      "expect": {
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        }
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      "params": {
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    "expect": {
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      }
    },
    "params": {
      "Region": "ap-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
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    "expect": {
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    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
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    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
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    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
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```
      },
      "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
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      "params": {
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        "UseFIPS": false,
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                "params": {
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                  "UseDualStack": false
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                "expect": {
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                  }
                },

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                  "Region": "ca-central-1",
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                  "UseDualStack": false
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                "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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                "params": {
                  "Region": "eu-central-1",
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                  "UseDualStack": false
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disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.eu-north-1.amazonaws.com"
                  }
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      },
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        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
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"eu-south-1",
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        "UseDualStack": false
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      "params": {
        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
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      "endpoint": {
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      },
      "params": {
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        "UseFIPS": false,
        "UseDualStack": false
      }
    },
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            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
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            "UseDualStack": false
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          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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          "params": {
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            "UseDualStack": false
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          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
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          "expect": {
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          "params": {
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            "UseFIPS": false,
            "UseDualStack": false
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          },
          "params": {
            "Region": "us-east-2",
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            "UseDualStack": false
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us-west-1 with FIPS disabled and DualStack disabled",
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                      "UseDualStack": false
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                    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

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                      }
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                    "params": {
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            "UseDualStack": false
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            "UseFIPS": true,

            "UseDualStack": true
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            }
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            "UseFIPS": false,
            "UseDualStack": true
          }
        },
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          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
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"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
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      "expect": {
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      "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack": false

}
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        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
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      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
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      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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        }
      },
      "params": {
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        "UseFIPS": false,
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            "endpoint": {
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            }
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            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
           },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
```

```
                "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.api.aws"
              }
            },

      "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-gov-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
```

```
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled
but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
```

```
            "UseDualStack": false
          }
        },

        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },

    "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
```

```
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,

    "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack enabled",
      "expect": {
        "error":
 "Invalid Configuration: Dualstack and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
      }
    },
    {
```

```
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
```

```
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant
ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
```

```
      "traits": {
        "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
      "type": "enum",
      "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
          }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

   "type": "enum",
      "members": {
        "CREATE_GRANT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CreateGrant"
          }
        },
        "CHECKOUT_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutLicense"
          }
        },
        "CHECKOUT_BORROW_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutBorrowLicense"
```

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#AuthorizationException"

            },
                {
                    "target": "com.amazonaws.licensemanager#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
            }
        },
        "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
            "type": "structure",
            "members": {
                "LicenseConsumptionToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License consumption token.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Beneficiary": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License beneficiary.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
```

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
         }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
         "type": "structure",
         "members":
{
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                  "smithy.api#required": {}
               }
            },
            "Entitlements": {
               "target": "com.amazonaws.licensemanager#EntitlementDataList",
               "traits": {
                  "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                  "smithy.api#required": {}
               }
            },
            "DigitalSignatureMethod": {
               "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
               "traits": {
                  "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                  "smithy.api#required": {}
               }
            },
            "NodeId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Node ID.</p>"
               }
            },
            "CheckoutMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about constraints.</p>"
               }
```

```
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },
            "EntitlementsAllowed":
{
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
```

```
            "IssuedAt": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
                }
            },
            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n        <p>If the
 account that created the license is the same that is performing the check out, you must\n        specify the account
 as the beneficiary.</p>\n        </note>"
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
          "type": "structure",
          "members": {
            "ProductSKU": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product
 SKU.</p>",
                "smithy.api#required": {}
              }
            },
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>",
                "smithy.api#required": {}
              }
            },
            "KeyFingerprint": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                "smithy.api#required": {}
              }
            },
```

```
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementDataList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",

    "smithy.api#required": {}
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "NodeId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Node ID.</p>"
          }
        }
      },
      "traits": {

     "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
      "type": "structure",
      "members": {
        "CheckoutType": {
          "target": "com.amazonaws.licensemanager#CheckoutType",
          "traits": {
            "smithy.api#documentation": "<p>Checkout type.</p>"
          }
        },
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
```

```
            },
            "EntitlementsAllowed": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
             "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
              }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutType": {
          "type": "enum",
          "members": {
            "PROVISIONAL": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
      },
      "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
```

```
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

    "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
          },
          "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
          },
          "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target":
 "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
 license\n            entitlements with a specific Amazon Web Services account, an organization, or an\n
 organizational unit (OU). For more
  information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
 licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrantRequest": {
```

```
        "type": "structure",
        "members": {
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}

    }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n        <li>\n        <p>An Amazon Web Services
account, which includes only the account specified.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n        </li>\n        </ul>\n
<ul>\n
        <li>\n        <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

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                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersion":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

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            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
      "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
```

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                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
             "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
          <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
```

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": " Tags to add to the license configuration. "
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": " Product information. "
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                 }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
```

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the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
{
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

          "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

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            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
              "smithy.api#required": {}

        }
          },
```

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            "ReportContext": {
              "target": "com.amazonaws.licensemanager#ReportContext",
              "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
              }
            },
            "ReportFrequency": {
              "target": "com.amazonaws.licensemanager#ReportFrequency",
              "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientRequestToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique,
 case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
              "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn":
 {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}
```

```
    }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>",
            "smithy.api#required": {}
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        }
      },
```

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

```
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
```

```
            "traits":
{
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "SourceVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
              }
            }
          },
          "traits": {

 "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseStatus",
              "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output":
```

```
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n          <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits":
{
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                "smithy.api#required": {}
            }
        },
        "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
            }
        },
        "ExpirationInDays": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
            }
        },
        "TokenProperties": {
             "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n          to the amr claim of the JWT token.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
```

```
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

```
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

  "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
```

```
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
         "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
         "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
         {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
         {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
         {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
         {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
         {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
         {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
         },

    {
            "target": "com.amazonaws.licensemanager#ValidationException"
         }
      ],
      "traits": {
         "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
         "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token ID.</p>",
               "smithy.api#required": {}
            }
         }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}

        }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
          "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "JWT_PS384"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
            }
          },
          "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
              "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
          },
          "Overage": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target":
"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement
data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Bytes"
            }
          },
          "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes"
            }
          },
          "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes"
            }
          },
          "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes"
            }
          },
          "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabytes"
            }
          },
          "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bits"
            }
          },
          "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobits"
            }
          },
          "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

```
            "BITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Bits/Second"
              }
            },
            "KILOBITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
              }
            },
            "MEGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
              }
            },
            "GIGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
          "type": "structure",
```

```
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Bytes"
      }
    },
    "KILOBYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Kilobytes"
       }
    },
    "MEGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabytes"
      }
    },
    "GIGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabytes"
      }
    },
    "TERABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabytes"
      }
    },
    "BITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Bits"
      }
    },
    "KILOBITS": {
      "target": "smithy.api#Unit",
      "traits": {

       "smithy.api#enumValue": "Kilobits"
      }
    },
    "MEGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits"
      }
    },
    "GIGABITS": {
      "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
          },
          "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes/Second"
            }
          },
          "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes/Second"
            }
          },
          "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes/Second"
            }
          },
          "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Terabytes/Second"
            }
          },
```

```
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },

     "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
          }
        },
        "COUNT_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count/Second"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage name.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "ConsumedValue": {
          "target": "com.amazonaws.licensemanager#String",

        "traits": {
            "smithy.api#documentation": "<p>Resource usage consumed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxCount": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
          }
        },
        "Unit": {
          "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
         "type": "structure",
         "members": {
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>",
                  "smithy.api#required": {}

       }
            },
            "DryRun": {
               "target": "com.amazonaws.licensemanager#Boolean",
               "traits": {
                  "smithy.api#default": false,
                  "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
         "type": "structure",
         "members": {
```

```
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },

            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#FailedDependencyException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
              "target": "com.amazonaws.licensemanager#String"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "FailedDependency",
              "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
          }
        },
        "com.amazonaws.licensemanager#Filter": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#FilterName",
              "traits": {
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
              }
            },
```

```
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
```

```
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Filter",
          "traits": {
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
          "Token": {
```

```
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
              "smithy.api#required": {}
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
              "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenResponse": {
        "type": "structure",
        "members": {
          "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
```

```
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
```

```
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
      "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
  },
  "ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
          }

    },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
          }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
          }
        },
        "Tags": {
          "target": "com.amazonaws.licensemanager#TagList",
           "traits": {
            "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {
          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        },
        "DisassociateWhenNotFound": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
              "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
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            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
      "type": "structure",
      "members": {
        "LicenseConversionTaskId": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
          }
        },
        "SourceLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
          }
        },
        "DestinationLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
          }
```

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

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            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
      },
      "errors": [
        {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
```

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        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
               }
            },
            "OrganizationConfiguration": {
               "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
               }
            },
            "EnableCrossAccountsDiscovery": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
               }

         },
            "LicenseManagerResourceShareArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#Grant": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                  "smithy.api#required": {}
               }
            },
            "GrantName": {
```

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 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                 }
            },
```

```
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
              }
            },
            "Options": {
              "target": "com.amazonaws.licensemanager#Options",
              "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#GrantList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Grant"
          }
        },
        "com.amazonaws.licensemanager#GrantStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
              }
            },
            "REJECTED": {
```

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            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

          }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
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        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
          }

    },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
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ISO8601-UTC format.</p>"
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>"
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
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            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
```

```
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidResourceState",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },

      "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
              "smithy.api#documentation": "<p>Condition of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
          "EQUALS": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "EQUALS"
            }
          },
          "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "NOT_EQUALS"
            }
          },
          "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "BEGINS_WITH"
            }
          },
          "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
               "smithy.api#enumValue": "CONTAINS"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
      },
      "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>",
              "smithy.api#required": {}
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>"
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n          and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

           "smithy.api#documentation": "<p>License name.</p>"
            }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {
```

```
    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
          }
        },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

       }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {

          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n          consumed and enforced by License Manager. Components include specifications for the license\n          type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n          must be associated with a host), and the number of licenses purchased and used.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
          "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
```

```
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
                }
            },

        "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from.  For more information about which platforms correspond to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
```

```
            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

         "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
```

```
            },
            "FAILED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "FAILED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
         }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
         "type": "enum",
         "members": {
            "VCPU": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "vCPU"
               }
            },
            "INSTANCE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Instance"
               }
            },
            "CORE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Core"
               }
            },
            "SOCKET": {
               "target": "smithy.api#Unit",
                "traits": {
                  "smithy.api#enumValue": "Socket"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseDeletionStatus": {
         "type": "enum",
         "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {

              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
            "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",

          "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
            }
          },
          "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
            }
```

```
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlement usages.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

      }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "LicenseUsageFailure",
          "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
         },
         "output": {

      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n         <p>Resource associations need not consume licenses from a license
configuration. \n         For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
         "type": "structure",
         "members": {
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results
to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
```

\n \n <code>GranteePrincipalARN</code>\n \n \n
\n \n <code>ProductSKU</code>\n \n \n \n
\n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

```
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
              }
            },
            "traits": {
              "smithy.api#input": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
            "type": "structure",
            "members": {
              "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
              },
              "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#output": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
            "type": "operation",
            "input": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
            },
            "output": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
            },
            "errors": [
              {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
              },
              {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
              },
              {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
              },
              {
```

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                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

   "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n       <ul>\n          <li>\n             <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n       </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits":
{
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
```

```
        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
```

```
            "traits": {

      "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
          "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

       "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
            }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while
specifying the\n        recipient as this Amazon Web Services account, your organization, or an organizational unit\n
    (OU) to which this member account belongs.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
            "smithy.api#required": {}
          }
        },
        "Filters": {
```

```
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n      <li>\n      <p>\n      <code>ParentArn</code>\n      </p>\n      </li>\n
<li>\n      <p>\n      <code>GranteePrincipalArn</code>\n      </p>\n      </li>\n      </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
```

```
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicenses": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
```

```
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {

      "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
              "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

         "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
               "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
          "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "Filters": {
        "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> |  \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
```

```
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Token IDs.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
      "type": "structure",
      "members": {
        "Tokens": {
          "target": "com.amazonaws.licensemanager#TokenList",
          "traits": {
            "smithy.api#documentation": "<p>Received token details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n          <li>\n            <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
          Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n
<li>\n            <p>\n              <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n              Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n            <p>\n
<code>resourceAccount</code> - The ID of the account that owns the resource. \n              Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
          "type": "structure",
          "members": {

 "LicenseConfigurationUsageList": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#String"
   },
   "traits": {
      "smithy.api#length": {
         "min": 0,
         "max": 3
      }
   }
},
"com.amazonaws.licensemanager#Message": {
   "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
   "type": "structure",
   "members": {
      "Name": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The key name.</p>"
         }
      },

"Value": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The value.</p>"
         }
      }
   },
   "traits": {
      "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
   }
},
"com.amazonaws.licensemanager#MetadataList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#Metadata"
   }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
```

```
"<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n          <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n          <p>The following filters and are supported when
the resource type \n          is <code>SSM_MANAGED</code>:</p>\n
          <ul>\n            <li>\n              <p>\n                <code>Application Name</code> - The name of the
application.\n              Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n              Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n
<code>Application Version</code> - The version of the application.\n              Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n                <code>Platform
```

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},

```
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
       }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
      "type": "structure",
      "members": {
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
```

```
            "aws.protocols#awsQueryError": {
              "code": "RateLimitExceeded",
              "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
          }
        },
        "com.amazonaws.licensemanager#ReceivedMetadata": {
          "type": "structure",
          "members": {
            "ReceivedStatus": {
              "target": "com.amazonaws.licensemanager#ReceivedStatus",
              "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
              }
            },
            "ReceivedStatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
              "traits": {
                "smithy.api#documentation": "<p>Received
 status reason.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReceivedStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
          "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

```
            "NONE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "None"
              }
            },
            "WEEKLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Weekly"
              }
            },
            "MONTHLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Monthly"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {
            "licenseConfigurationArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {

          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n         The only supported value is <code>1</code>.</p>"
              }
            },
            "period": {
```

```
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
          },
          "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
```

```
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }

      }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
         "type": "string",
         "traits": {
            "smithy.api#length": {
               "min": 1,
               "max": 100
            }
         }
      },
      "com.amazonaws.licensemanager#ReportType": {
```

```
      "type": "enum",
      "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
          }

    },
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationUsageReport"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
      }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
      "type": "structure",
      "members": {
        "ResourceId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits":
{
            "smithy.api#documentation": "<p>Type of resource.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "Platform": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Platform of the resource.</p>"
              }
            },
            "PlatformVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
              }
            },
            "ResourceOwningAccountId":
{
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#ResourceInventoryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
          }
        },
        "com.amazonaws.licensemanager#ResourceLimitExceededException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "ResourceLimitExceeded",

               "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        },
        "com.amazonaws.licensemanager#ResourceNotFoundException": {
          "type": "structure",
          "members": {
```

```
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "RDS"
        }
      },
      "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
           "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
        }
      }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

```
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Data specified by the caller.</p>"
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
            }
          }
        },
        "traits": {

          "smithy.api#documentation": "<p>Describes a token.</p>"
        }
      },
      "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#TokenData"
        }
      },
      "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 4096
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
          "REFRESH_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REFRESH_TOKEN"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

```
    "com.amazonaws.licensemanager#UntagResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
             "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            },
            "LicenseConfigurationStatus": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
              "traits": {
                "smithy.api#documentation": "<p>New status of the license configuration.</p>"
              }
            },
            "LicenseRules": {
              "target": "com.amazonaws.licensemanager#StringList",
              "traits": {

    "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
    configuration is licenseAffinityToHost.</p>"
              }
            },
            "LicenseCount": {
              "target": "com.amazonaws.licensemanager#BoxLong",
              "traits": {
                "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
              }
            },
            "LicenseCountHardLimit": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New description of the license configuration.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>New product information.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a
report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest":
{
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

```
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n        <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n        </li>\n        <li>\n        <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n        </li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>The report context.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits":
 {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
```

```
        }
      },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
            "smithy.api#required": {}
          }
        },
        "AddLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
          }
        },
        "RemoveLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

            }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 50
                }
            }
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

            "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.210 aws-aws-sdk-go 1.23.5

1.210.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "AssociateLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
```

```
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return
err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
```

```
            "traits": {
              "smithy.api#documentation": "<p>An operator for filtering results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
```

```
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
          },
          "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
          },
          "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

        },
          "AccountID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of the instance.</p>"
            }
          },
          "Region": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
            }
          },
          "UsageOperation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
            }
          },
          "ProductCode": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-linux-subscriptions"
            },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",

 "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"
                ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
```

```
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The
 AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

             "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]
                }
              ],
              "type": "tree",
```

```
 "rules": [
    {

   "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
               {
                  "ref": "UseFIPS"
               },
               true
            ]
          }
       ],
       "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
       "type": "error"
    },
    {
       "conditions": [],
       "type": "tree",
       "rules": [
          {

      "conditions": [
                {
                   "fn": "booleanEquals",
                   "argv": [
                      {
                         "ref": "UseDualStack"
                      },
                      true
                   ]
                }
             ],
             "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
             "type": "error"
          },
          {
             "conditions": [],

"endpoint": {
                "url": {
                   "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
             },
             "type": "endpoint"
```

```
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

"argv": [
                                {
                                    "ref": "Region"
                                }
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "aws.partition",
                                    "argv": [
                                        {
                                            "ref": "Region"
                                        }
                                    ],

"assign": "PartitionResult"
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [
                                        {
                                            "fn": "booleanEquals",
                                            "argv": [
                                                {
                                                    "ref": "UseFIPS"
                                                },
                                                true
                                            ]
```

```
                },

            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {

                "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]

}
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },

                                "supportsDualStack"
                                    ]
                                }
                            ]
```

```
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                        {

                "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]

        },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {

          "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
```

```
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,

{
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",

              "rules": [
                  {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                          "properties": {},
                          "headers": {}

                        },
                        "type": "endpoint"
                      }
                    ]
                  }
                ]
              },
              {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
              }
            ]
```

```
},
                                    {
                                       "conditions": [
                                          {
                                             "fn": "booleanEquals",
                                             "argv": [
                                                {
                                                   "ref": "UseDualStack"
                                                },
                                                true
                                             ]
                                          }
                                       ],
                                       "type": "tree",
                                       "rules": [
                                          {

                                        "conditions": [
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                                                   "fn": "booleanEquals",
                                                   "argv": [
                                                      true,
                                                      {
                                                         "fn": "getAttr",
                                                         "argv": [
                                                            {
                                                               "ref": "PartitionResult"
                                                            },
                                                            "supportsDualStack"
                                                         ]
                                                      }
                                                   ]
                                                }
                                             ],
                                             "type": "tree",
                                             "rules": [
                                                {
                                                   "conditions": [],
                                                   "type": "tree",
                                                   "rules": [
                                                      {
                                                         "conditions": [],

                                                    "endpoint": {
                                                            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                            "properties": {},
                                                            "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

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      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {

"endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
```

```
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
       "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint":
```

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{
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
```

```
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
       "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
       }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
            }
        },
        {

    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {

             "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
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                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",

    "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

      "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
```

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            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
```

```
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
          "type": "structure",
          "members": {
            "SourceRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
               "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "OrganizationIntegration": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
              "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
          "type":
 "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
              "method": "POST",
              "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "Instances"
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
          "type": "structure",
          "members": {
            "Filters": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n      <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>AmiID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>AccountID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Status</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Region</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>UsageOperation</code>\n      </p>\n      </li>\n      <li>\n
    <p>\n      <code>ProductCode</code>\n      </p>\n      </li>\n      <li>\n      <p>\n
     <code>InstanceType</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n
        <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
        }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n
      <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n
          <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {

              "min": 1,
                "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "Subscriptions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
          "traits": {
            "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "EQUAL",
            "value": "Equal",
            "documentation": "Equal operator"
          },
          {
            "name": "NOT_EQUAL",
            "value": "NotEqual",
```

```
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
```

```
                {
                    "name": "Completed",
                    "value": "Completed",
                    "documentation": "Completed status"
                },
                {
                    "name": "Successful",
                    "value": "Successful",
                    "documentation": "Successful status"
                },
                {
                    "name": "Failed",
                    "value": "Failed",
                    "documentation": "Failed status"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

```
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux
 subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
      },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
            "smithy.api#required": {}
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
```

```
  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

           "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
```

```
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
          }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
          "type": "structure",
          "members": {
              "message": {
                  "target": "smithy.api#String"
              }
          },
          "traits": {
              "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
              "smithy.api#error": "client"
          }
      }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

    noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // Amazon Resource
    Name (ARN) of the checkout license.
    LicenseArn *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata

    noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
```

```
// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 OperationName:
"CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

```
"<p>Details about an Active Directory identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n          <note>\n          <p>Your estimated bill for charges on the number of users and related
costs will take 48\n          hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
          monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n          </note>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required": {}
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>The identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
           "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
      "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
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subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                 "smithy.api#required": {}
               }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/DisassociateUser"
          },
          "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
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            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
```

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            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
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            "traits": {
                "smithy.api#documentation": "<p>An object that details the registered identity providers product related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
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            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
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                "smithy.api#required": {}
            }
        },
        "InstanceId": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
```

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
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            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
            "sdkId": "License Manager User Subscriptions",
            "arnNamespace": "license-manager-user-subscriptions",
            "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-user-subscriptions"
           },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",
              "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
```

```
                "x-amzn-requestid",
                "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
              "version": "1.0",
              "parameters": {
                "Region": {
                  "builtIn": "AWS::Region",
                  "required": false,
                  "documentation": "The AWS region used to dispatch the request.",
                  "type": "String"
                },
                "UseDualStack": {
                  "builtIn": "AWS::UseDualStack",
                  "required": true,
                  "default": false,
                  "documentation": "When true, use the dual-stack
 endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                  "type": "Boolean"
                },
                "UseFIPS": {
                  "builtIn": "AWS::UseFIPS",
                  "required": true,
                  "default": false,
                  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
                  "type": "Boolean"
                },
                "Endpoint": {
                  "builtIn": "SDK::Endpoint",
                  "required": false,
                  "documentation": "Override the endpoint used to send this request",
                  "type": "String"
                }

            },
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "isSet",
                    "argv": [
                      {
```

```
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },

                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],

      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
```

```
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [

    {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",

"rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
```

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                "ref": "UseDualStack"

              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",

"argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              },
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

        "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
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            "conditions": [],
                                    "endpoint": {
                                       "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                       "properties": {},
                                       "headers": {}
                                    },
                                    "type": "endpoint"
                                 }
                              ]
                           },
                           {
                              "conditions": [],
                              "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                               "type": "error"
                           }
                        ]
                     },
                     {
                        "conditions": [
                           {
                              "fn": "booleanEquals",
                              "argv": [
                                 {
                                    "ref": "UseFIPS"
                                 },
                                 true
                              ]
                           }
                        ],
                        "type": "tree",

         "rules": [
                           {
                              "conditions": [
                                 {
                                    "fn": "booleanEquals",
                                    "argv": [
                                       true,
                                       {
                                          "fn": "getAttr",
                                          "argv": [
                                             {
                                                "ref": "PartitionResult"
                                             },
                                             "supportsFIPS"
```

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                                    ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                },
                                    "type": "endpoint"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
```

```
                                    "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {

                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does
 not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
```

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            },
            {
              "conditions":
[],
              "error": "Invalid Configuration: Missing Region",
              "type": "error"
            }
          ]
        },
        "smithy.rules#endpointTests": {
          "testCases": [
            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
              "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
              },

            "params": {
                  "Region": "us-east-1",
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            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },

      "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },

  "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
```

```
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
                "endpoint": {
```

```
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack":
true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
```

```
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                 "url": "https://example.com"
              }
            },
            "params": {
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
               "UseFIPS": true,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": true,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
               "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
```

```
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "IdentityProviderSummaries"
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
          "type":
 "structure",
          "members": {
            "InstanceSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
           },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "ProductUserSummaries"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
          "type": "structure",
          "members": {
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
 that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
```

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }

},
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of a product for a user.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusMessage": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        },
        "SubscriptionStartDate": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
            }
          },
          "SubscriptionEndDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The end date of a subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
```

```
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
 settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
```

```
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
```

```
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
               "code": 200,
               "method": "POST",
               "uri": "/user/StartProductSubscription"
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
         "type": "structure",
         "members": {
            "Username": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "Product": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {

           "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

```
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
        "UpdateSettings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n          <li>\n            <p>Subnets which you want to add to provision VPC endpoints.</p>\n          </li>\n
        <li>\n            <p>Subnets which you want to remove the VPC endpoints from.</p>\n          </li>\n
<li>\n            <p>Security group ID which permits traffic to the VPC endpoints.</p>\n          </li>\n        </ul>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
      "type": "structure",
      "members": {
        "IdentityProviderSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
          "traits": {
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
      "type": "structure",
      "members": {
        "AddSubnets": {

         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
```

```
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for activation servers.</p>"
                }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings such as\n      the subnets to provision VPC endpoints.</p>"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
          "type": "structure",
          "members": {
            "message": {
              "target": "smithy.api#String"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
          }
        }
      }
    }
    {
      "smithy": "2.0",
      "metadata": {
        "suppressions": [
          {
            "id": "HttpMethodSemantics",
            "namespace": "*"
          },
          {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
          },
          {
            "id": "PaginatedTrait",
            "namespace": "*"
          },
          {
            "id": "HttpHeaderTrait",
            "namespace": "*"
          },
          {
            "id": "HttpUriConflict",
            "namespace": "*"
          },
```

```
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
    "type": "service",
    "version": "2018-08-01",
    "operations": [
      {
        "target": "com.amazonaws.licensemanager#AcceptGrant"
      },

{
        "target": "com.amazonaws.licensemanager#CheckInLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrant"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
       },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateToken"
      },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

},
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
     },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
```

```
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
   "target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
   "target": "com.amazonaws.licensemanager#ListTokens"
},
{
   "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
{
```

```
            "target": "com.amazonaws.licensemanager#RejectGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#TagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UntagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
             "sdkId": "License Manager",
            "arnNamespace": "license-manager",
            "cloudFormationName": "LicenseManager",
            "cloudTrailEventSource": "licensemanager.amazonaws.com",
            "endpointPrefix": "license-manager"
          },
          "aws.auth#sigv4": {
            "name": "license-manager"
          },
          "aws.protocols#awsJson1_1": {},
          "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
          "smithy.api#title": "AWS License Manager",
          "smithy.api#xmlNamespace": {
            "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
          },
          "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
              "Region": {
                "builtIn": "AWS::Region",
                "required": false,
                "documentation": "The AWS region used to dispatch the request.",
                "type": "String"
              },
```

```
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send
 this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant
endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]

                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
```

```
                    ]
                }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
        },
        {

"conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],
            "endpoint": {
                "url": {
                    "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [
                {
                    "ref": "Region"
                }
            ]
        }
    ],
    "type": "tree",
    "rules": [
```

```
                {
                  "conditions": [
                    {
                      "fn": "aws.partition",
                      "argv": [
                        {
                          "ref": "Region"
                        }
                      ],
                      "assign": "PartitionResult"
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref":
"UseFIPS"
                            },
                            true
                          ]
                        },
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
```

```
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]

                        }
                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },

    "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}

                },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
            "type": "error"
        }
    ]
},
```

```
    {
      "conditions": [
        {
          "fn": "booleanEquals",

       "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                true,

{
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [

{
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
```

```
                {
                  "conditions": [],
                  "error": "FIPS is enabled but this
partition does not support FIPS",
                  "type": "error"
                }
              ]
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],
              "type": "tree",
               "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },

    "supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
```

```
                                "properties": {},
                                "headers": {}

                            },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                     "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
  ]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
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      "params": {
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        "UseFIPS": false,
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      "UseDualStack": false
    }
  },
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    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-east-1.amazonaws.com"
      }
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    "params": {
      "Region": "ap-east-1",
      "UseFIPS": false,
      "UseDualStack": false
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    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
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      },
      "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
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    {
      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
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      "params": {
        "Region": "ap-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
      },
      "params": {
        "Region": "ap-southeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-southeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
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        {

    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
          },

         "params": {
            "Region": "ca-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-north-1.amazonaws.com"
            }
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      },
      "params": {
        "Region": "eu-north-1",
        "UseFIPS": false,
        "UseDualStack": false
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    },
    {
      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region":
"eu-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {

      "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
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        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
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            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
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        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.sa-east-1.amazonaws.com"
             }
          },
          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
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          "params": {
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            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
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          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
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          "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-2.amazonaws.com"
            }

         },
          "params": {
            "Region": "us-east-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
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          "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
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            }
          },
          "params": {
            "Region": "us-east-2",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region
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us-west-1 with FIPS disabled and DualStack disabled",
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                      "endpoint": {
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                    "params": {
                      "Region": "us-west-1",
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                      "UseDualStack": false
                    }
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                    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
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                      "UseDualStack": false
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                    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
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                    "params": {
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            "UseDualStack": false
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            "UseFIPS": true,

            "UseDualStack": true
          }
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              "url": "https://license-manager.us-east-1.api.aws"
            }
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            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
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          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
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          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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          "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
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      "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack": false

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    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
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        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
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      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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        "Region": "cn-north-1",
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        "UseDualStack": false
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        }
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        "UseFIPS": false,
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          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
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          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
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          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
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        {
          "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
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          "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
          "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
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                  "UseDualStack": true
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              },
              {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                  }
                },
                "params": {
                  "Region": "us-iso-east-1",
                  "UseFIPS": false,
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      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled
but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
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        "UseFIPS": false,
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            "UseDualStack": false
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          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },

    "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
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      "params": {
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        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,

    "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack enabled",
      "expect": {
        "error":
 "Invalid Configuration: Dualstack and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
      }
    },
    {
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                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
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      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant
ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
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      "traits": {
        "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
      "type": "enum",
      "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
          }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

   "type": "enum",
      "members": {
        "CREATE_GRANT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CreateGrant"
          }
        },
        "CHECKOUT_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutLicense"
          }
        },
        "CHECKOUT_BORROW_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutBorrowLicense"
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            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
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          }
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        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
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```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#AuthorizationException"

            },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },
            "EntitlementsAllowed":
{
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
```

```
            "IssuedAt": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
               }
            },
            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
               }
            },
            "CheckoutMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about constraints.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
          },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n        <p>If the
 account that created the license is the same that is performing the check out, you must\n        specify the account
 as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",

      "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Beneficiary": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            }
          },
          "traits": {

         "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
          "type": "structure",
          "members": {
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
```

```
            },
            "EntitlementsAllowed": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
             "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
              }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutType": {
          "type": "enum",
          "members": {
            "PROVISIONAL": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
      },
      "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
```

```
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

    "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
          },
          "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
          },
          "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target":
 "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
 license\n            entitlements with a specific Amazon Web Services account, an organization, or an\n
 organizational unit (OU). For more
  information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
 licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrantRequest": {
```

```
        "type": "structure",
        "members": {
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}

    }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n        <li>\n        <p>An Amazon Web Services
account, which includes only the account specified.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n        </li>\n        </ul>\n
<ul>\n
        <li>\n        <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },

    "com.amazonaws.licensemanager#CreateGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
           "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
      "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
             "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
          <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
```

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": " Tags to add to the license configuration. "
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": " Product information. "
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                 }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
```

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the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
{
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

          "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
              "smithy.api#required": {}

        }
          },
```

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            "ReportContext": {
              "target": "com.amazonaws.licensemanager#ReportContext",
              "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
              }
            },
            "ReportFrequency": {
              "target": "com.amazonaws.licensemanager#ReportFrequency",
              "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientRequestToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique,
 case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
              "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn":
 {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}
```

```
    }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>",
            "smithy.api#required": {}
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        }
      },
```

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

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        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
```

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            "traits":
{
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
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                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "SourceVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
              }
            }
          },
          "traits": {

 "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseStatus",
              "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output":
```

```
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n          <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits":
{
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                "smithy.api#required": {}
            }
        },
        "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
            }
        },
        "ExpirationInDays": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
            }
        },
        "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n          to the amr claim of the JWT token.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#DeleteGrantRequest": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "StatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
              "traits": {
                "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
              }
```

```
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

```
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

  "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
```

```
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
         "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
         "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
         {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
         {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
         {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
         {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
         {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
         {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
         },

    {
            "target": "com.amazonaws.licensemanager#ValidationException"
         }
      ],
      "traits": {
         "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
         "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token ID.</p>",
               "smithy.api#required": {}
            }
         }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}

        }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
          "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "JWT_PS384"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
            }
          },
          "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
              "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
          },
          "Overage": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target":
"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement
data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Bytes"
            }
          },
          "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes"
            }
          },
          "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes"
            }
          },
          "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes"
            }
          },
          "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabytes"
            }
          },
          "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bits"
            }
          },
          "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobits"
            }
          },
          "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

```
            "BITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Bits/Second"
              }
            },
            "KILOBITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
              }
            },
            "MEGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
              }
            },
            "GIGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
          "type": "structure",
```

```
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Bytes"
      }
    },
    "KILOBYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Kilobytes"
       }
    },
    "MEGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabytes"
      }
    },
    "GIGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabytes"
      }
    },
    "TERABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabytes"
      }
    },
    "BITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Bits"
      }
    },
    "KILOBITS": {
      "target": "smithy.api#Unit",
      "traits": {

       "smithy.api#enumValue": "Kilobits"
      }
    },
    "MEGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits"
      }
    },
    "GIGABITS": {
      "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
          },
          "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes/Second"
            }
          },
          "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes/Second"
            }
          },
          "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes/Second"
            }
          },
          "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Terabytes/Second"
            }
          },
```

```
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },

     "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
          }
        },
        "COUNT_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count/Second"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage name.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "ConsumedValue": {
          "target": "com.amazonaws.licensemanager#String",

        "traits": {
            "smithy.api#documentation": "<p>Resource usage consumed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxCount": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
          }
        },
        "Unit": {
          "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
         "type": "structure",
         "members": {
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>",
                  "smithy.api#required": {}

          }
            },
            "DryRun": {
               "target": "com.amazonaws.licensemanager#Boolean",
               "traits": {
                  "smithy.api#default": false,
                  "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
         "type": "structure",
         "members": {
```

```
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>"
               }
            },

            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
         "type": "structure",
         "members": {
            "Message": {
               "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
               "target": "com.amazonaws.licensemanager#String"
            }
         },
         "traits": {
            "aws.protocols#awsQueryError": {
               "code": "FailedDependency",
               "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
         }
      },
      "com.amazonaws.licensemanager#Filter": {
         "type": "structure",
         "members": {
            "Name": {
               "target": "com.amazonaws.licensemanager#FilterName",
               "traits": {
                  "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
               }
            },
```

```
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
```

```
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Filter",
          "traits": {
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
          "Token": {
```

```
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
              "smithy.api#required": {}
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
              "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenResponse": {
        "type": "structure",
        "members": {
          "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
```

```
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
```

```
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
      "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
  },
  "ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
          }

    },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
          }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
          }
        },
        "Tags": {
          "target": "com.amazonaws.licensemanager#TagList",
           "traits": {
            "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {
          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        },
        "DisassociateWhenNotFound": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
                "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
```

```
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
          "type": "structure",
          "members": {
            "LicenseConversionTaskId": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
              "traits": {
                "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
              }
            },
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
              }
            },
            "SourceLicenseContext": {
              "target": "com.amazonaws.licensemanager#LicenseConversionContext",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
              }
            },
            "DestinationLicenseContext": {
              "target": "com.amazonaws.licensemanager#LicenseConversionContext",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
              }
            },
            "StatusMessage": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
              "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
              }
```

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
      },
      "errors": [
        {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
               }
            },
            "OrganizationConfiguration": {
               "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
               }
            },
            "EnableCrossAccountsDiscovery": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
               }

         },
            "LicenseManagerResourceShareArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#Grant": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                  "smithy.api#required": {}
               }
            },
            "GrantName": {
```

```
 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}
            }
          },
          "ParentArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Parent ARN.</p>",
              "smithy.api#required": {}
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>License ARN.</p>",
              "smithy.api#required": {}
            }
          },
          "GranteePrincipalArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantStatus": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>",
              "smithy.api#required": {}
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>Grant status reason.</p>"
             }
          },
```

```
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
              }
            },
            "Options": {
              "target": "com.amazonaws.licensemanager#Options",
              "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#GrantList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Grant"
          }
        },
        "com.amazonaws.licensemanager#GrantStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
              }
            },
            "REJECTED": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

          }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
```

```
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
          }

    },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
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```
ISO8601-UTC format.</p>"
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>"
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
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            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
```

```
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidResourceState",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },

      "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
              "smithy.api#documentation": "<p>Condition of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
          "EQUALS": {
            "target": "smithy.api#Unit",
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            "traits": {
              "smithy.api#enumValue": "EQUALS"
            }
          },
          "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "NOT_EQUALS"
            }
          },
          "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "BEGINS_WITH"
            }
          },
          "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
               "smithy.api#enumValue": "CONTAINS"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
      },
      "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>",
              "smithy.api#required": {}
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage
 of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
            }
          }
```

```
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#IssuerDetails": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Issuer name.</p>"
        }
      },
      "SignKey": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
        }
      },
      "KeyFingerprint": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
      "LicenseArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
        }
      },
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
        }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {
```

```
    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
          }
        },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

       }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {

          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
          "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
```

```
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
                }
            },

        "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from.  For more information about which platforms correspond to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
```

```
            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

         "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
```

```
            },
            "FAILED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "FAILED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
         }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
         "type": "enum",
         "members": {
            "VCPU": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "vCPU"
               }
            },
            "INSTANCE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Instance"
               }
            },
            "CORE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Core"
               }
            },
            "SOCKET": {
               "target": "smithy.api#Unit",
                "traits": {
                  "smithy.api#enumValue": "Socket"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseDeletionStatus": {
         "type": "enum",
         "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Name of the operation.</p>"
               }
            },
            "ResourceOwnerId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
               }
            },
            "OperationRequestedBy": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
               }
            },
            "MetadataList": {

               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Reserved.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
         }
      },
      "com.amazonaws.licensemanager#LicenseOperationFailureList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
         }
      },
      "com.amazonaws.licensemanager#LicenseSpecification": {
         "type": "structure",
         "members": {
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
            "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",

          "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
            }
          },
          "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
            }
```

```
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlement usages.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

      }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "LicenseUsageFailure",
          "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
        },
        "output": {

    "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n          <p>Resource associations need not consume licenses from a license
configuration. \n          For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results
to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
```

\n \n <code>GranteePrincipalARN</code>\n \n \n \n \n <code>ProductSKU</code>\n \n \n \n \n <code>LicenseIssuerName</code>\n \n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

```
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n         </ul>"
                }
              }
            },
            "traits": {
              "smithy.api#input": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
            "type": "structure",
            "members": {
              "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
              },
              "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#output": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
            "type": "operation",
            "input": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
            },
            "output": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
            },
            "errors": [
              {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
              },
              {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
              },
              {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
              },
              {
```

```
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

   "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n       <ul>\n          <li>\n             <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n       </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits":
{
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
```

```
        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
```

```
            "traits": {

      "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
          "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

       "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
            }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

```
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {

   "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while
   specifying the\n         recipient as this Amazon Web Services account, your organization, or an organizational unit\n
      (OU) to which this member account belongs.</p>"
         }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
            "smithy.api#required": {}
          }
        },
        "Filters": {
```

```
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n      <li>\n      <p>\n      <code>ParentArn</code>\n      </p>\n      </li>\n
<li>\n      <p>\n      <code>GranteePrincipalArn</code>\n      </p>\n      </li>\n      </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
```

```
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
             "traits": {
               "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
             }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
               "smithy.api#documentation": "<p>Received grant details.</p>"
             }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicenses": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
```

```
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {

      "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
              "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

         "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
               "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
          "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "Filters": {
        "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> |  \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
```

```
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Token IDs.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
      "type": "structure",
      "members": {
        "Tokens": {
          "target": "com.amazonaws.licensemanager#TokenList",
          "traits": {
            "smithy.api#documentation": "<p>Received token details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n          <li>\n            <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
          Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n
<li>\n            <p>\n              <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n              Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n            <p>\n
<code>resourceAccount</code> - The ID of the account that owns the resource. \n              Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
          "type": "structure",
          "members": {

 "LicenseConfigurationUsageList": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#String"
   },
   "traits": {
      "smithy.api#length": {
         "min": 0,
         "max": 3
      }
   }
},
"com.amazonaws.licensemanager#Message": {
   "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
   "type": "structure",
   "members": {
      "Name": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The key name.</p>"
         }
      },

"Value": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The value.</p>"
         }
      }
   },
   "traits": {
      "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
   }
},
"com.amazonaws.licensemanager#MetadataList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#Metadata"
   }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
```

```
"<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n          <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n          <p>The following filters and are supported when
the resource type \n          is <code>SSM_MANAGED</code>:</p>\n
          <ul>\n            <li>\n              <p>\n                <code>Application Name</code> - The name of the
application.\n              Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n              Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n
<code>Application Version</code> - The version of the application.\n              Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n                <code>Platform
```

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n
\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Describes product information for a license configuration. "
}
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
"type": "structure",
"members": {
"ProductInformationFilterName": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Filter name. ",
"smithy.api#required": {}
}
},
"ProductInformationFilterValue": {
"target": "com.amazonaws.licensemanager#StringList",
"traits": {
"smithy.api#documentation": " Filter value. "
}
},

```
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
       }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
      "type": "structure",
      "members": {
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
```

```
            "aws.protocols#awsQueryError": {
              "code": "RateLimitExceeded",
              "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
          }
        },
        "com.amazonaws.licensemanager#ReceivedMetadata": {
          "type": "structure",
          "members": {
            "ReceivedStatus": {
              "target": "com.amazonaws.licensemanager#ReceivedStatus",
              "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
              }
            },
            "ReceivedStatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
              "traits": {
                "smithy.api#documentation": "<p>Received
 status reason.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReceivedStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
          "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

```
            "NONE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "None"
              }
            },
            "WEEKLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Weekly"
              }
            },
            "MONTHLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Monthly"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {
            "licenseConfigurationArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {

          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n         The only supported value is <code>1</code>.</p>"
              }
            },
            "period": {
```

```
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
          },
          "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
```

```
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }

      }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
         "type": "string",
         "traits": {
            "smithy.api#length": {
               "min": 1,
               "max": 100
            }
         }
      },
      "com.amazonaws.licensemanager#ReportType": {
```

```
        "type": "enum",
        "members": {
          "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

      },
          "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ReportType"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Platform of the resource.</p>"
              }
            },
            "PlatformVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
              }
            },
            "ResourceOwningAccountId":
{
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#ResourceInventoryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
          }
        },
        "com.amazonaws.licensemanager#ResourceLimitExceededException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "ResourceLimitExceeded",

               "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        },
        "com.amazonaws.licensemanager#ResourceNotFoundException": {
          "type": "structure",
          "members": {
```

```
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "RDS"
        }
      },
      "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
           "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
        }
      }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

```
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Data specified by the caller.</p>"
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
            }
          }
        },
        "traits": {

          "smithy.api#documentation": "<p>Describes a token.</p>"
        }
      },
      "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#TokenData"
        }
      },
      "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 4096
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
          "REFRESH_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REFRESH_TOKEN"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

```
    "com.amazonaws.licensemanager#UntagResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
             "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

  "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
  configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New description of the license configuration.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>New product information.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

```
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n        <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n        </li>\n        <li>\n        <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n        </li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>The report context.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits":
 {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
```

```
        }
      },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
            "smithy.api#required": {}
          }
        },
        "AddLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
          }
        },
        "RemoveLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

            }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 50
                }
            }
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

            "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.211 aws-aws-sdk-go-v2-internal-configsources 1.2.8

1.211.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
```

```
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
        "type": "integer"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
        "type": "long"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
           "Name": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
              }
           },
           "Values": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
              "traits": {
                 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
              }
           },
```

```
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
          "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {

        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/GetServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
      "type": "structure",
      "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
          "traits": {
            "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
          "traits": {
            "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
          }
        },
        "HomeRegions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
      "type": "structure",
      "members": {
```

```
        "AmiId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
          }
        },
        "InstanceID": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
          }
        },
        "InstanceType": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The instance type of the resource.</p>"
          }

      },
        "AccountID": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
          }
        },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of the instance.</p>"
          }
        },
        "Region": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
          }
        },
        "UsageOperation": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
          }
        },
        "ProductCode": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
            }
          },
          "LastUpdatedTime": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
            }
          },
          "SubscriptionName": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
           }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
          {
```

```
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
          }
        ],

    "traits": {
          "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
          },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
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              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",

"x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
              "x-amzn-requestid",
              "x-amzn-trace-id"
            ]
          },
          "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
```

```
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager Linux Subscriptions",
            "smithy.rules#endpointRuleSet": {
               "version": "1.0",
               "parameters": {
                  "Region": {
                     "builtIn": "AWS::Region",
                     "required": false,
                     "documentation": "The
 AWS region used to dispatch the request.",
                     "type": "String"
                  },
                  "UseDualStack": {
                     "builtIn": "AWS::UseDualStack",
                     "required": true,
                     "default": false,
                     "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                     "type": "Boolean"
                  },
                  "UseFIPS": {
                     "builtIn": "AWS::UseFIPS",
                     "required": true,
                     "default": false,
                     "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

                   "type": "Boolean"
                  },
                  "Endpoint": {
                     "builtIn": "SDK::Endpoint",
                     "required": false,
                     "documentation": "Override the endpoint used to send this request",
                     "type": "String"
                  }
               },
               "rules": [
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                        {
                           "fn": "isSet",
                           "argv": [
                              {
                                 "ref": "Endpoint"
                              }
                           ]
                        }
                     ],
```

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  "conditions": [
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          "argv": [
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            },
            true
          ]
        }
      ],
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
      "type": "error"
  },
  {
    "conditions": [],
    "type": "tree",
    "rules": [
      {

    "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
          "type": "error"
        },
        {
          "conditions": [],

"endpoint": {
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              "ref": "Endpoint"
            },
            "properties": {},
            "headers": {}
          },
```

```
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
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                    {
                        "fn": "isSet",

    "argv": [
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                                "ref": "Region"
                            }
                        ]
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                                "argv": [
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                                    }
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                                "conditions": [
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                                        "argv": [
                                            {
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                                            },
                                            true
```

```
                ]
              },

            {
                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
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                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]

}
                      ]
                    },
                    {
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                      "argv": [
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                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },

                       "supportsDualStack"
                          ]
                        }
```

```
                ]
              }
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            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "type": "tree",
                "rules": [
                  {

        "conditions": [],
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                      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]

      },
        {
          "conditions": [],
          "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
          "type": "error"
        }
      ]
    },
    {
      "conditions": [
        {
          "fn": "booleanEquals",
          "argv": [
            {

  "ref": "UseFIPS"
            },
            true
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      ],
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```

```
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                      "argv": [
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                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                          ]
                        }
                      ]
                    }
                  ],
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                "rules": [
                    {
                      "conditions": [],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [],
                          "endpoint": {
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fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}

                          },
                          "type": "endpoint"
                        }
                      ]
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "FIPS is enabled but this partition does not support FIPS",
                  "type": "error"
                }
              ]
```

```
},
                                    {
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                                             "argv": [
                                                {
                                                   "ref": "UseDualStack"
                                                },
                                                true
                                             ]
                                          }
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                                       "type": "tree",
                                       "rules": [
                                          {

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                                                {
                                                   "fn": "booleanEquals",
                                                   "argv": [
                                                      true,
                                                      {
                                                         "fn": "getAttr",
                                                         "argv": [
                                                            {
                                                               "ref": "PartitionResult"
                                                            },
                                                            "supportsDualStack"
                                                         ]
                                                      }
                                                   ]
                                                }
                                             ],
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                                             "rules": [
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                                                         "conditions": [],

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                                                            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                            "properties": {},
                                                            "headers": {}
```

```
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },

        {
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                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [],
            "type": "tree",
            "rules": [
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                    "conditions": [],
                    "endpoint": {
                        "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
}
]
},
{
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    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

```
      "expect": {
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        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {

"endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
```

```
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {

      "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
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      }
    },
    {
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      "expect": {
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        }
      },
      "params": {
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        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
```

```
{
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
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            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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                }
            },
            "params": {
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            }
        },
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            "expect": {
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{
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
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                "UseFIPS": false,
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```
    }
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        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
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      "UseFIPS": false,
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    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
       }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
            }
        },
        {

    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
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              }
            },
            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
            }
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            "expect": {
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            },
            "params": {

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              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
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                "UseDualStack": true
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        {
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            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",

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                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
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                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
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disabled",

      "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
```

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
```

```
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
          "type": "structure",
          "members": {
            "SourceRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
               "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "OrganizationIntegration": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
              "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
          "type":
 "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
              "method": "POST",
              "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "Instances"
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
          "type": "structure",
          "members": {
            "Filters": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n      <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>AmiID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>AccountID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Status</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Region</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>UsageOperation</code>\n      </p>\n      </li>\n      <li>\n
    <p>\n      <code>ProductCode</code>\n      </p>\n      </li>\n      <li>\n      <p>\n
     <code>InstanceType</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n
        <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
        }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n
      <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {

              "min": 1,
                "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "Subscriptions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
          "traits": {
            "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "EQUAL",
            "value": "Equal",
            "documentation": "Equal operator"
          },
          {
            "name": "NOT_EQUAL",
            "value": "NotEqual",
```

```
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
```

```
                {
                    "name": "Completed",
                    "value": "Completed",
                    "documentation": "Completed status"
                },
                {
                    "name": "Successful",
                    "value": "Successful",
                    "documentation": "Successful status"
                },
                {
                    "name": "Failed",
                    "value": "Failed",
                    "documentation": "Failed status"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

```
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
      },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
            "smithy.api#required": {}
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
```

```
  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

           "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
```

```
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
          }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
          "type": "structure",
          "members": {
              "message": {
                  "target": "smithy.api#String"
              }
          },
          "traits": {
              "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
              "smithy.api#error": "client"
          }
      }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
  - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
```

```
// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 OperationName:
"CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```
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DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

```
"<p>Details about an Active Directory identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n          <note>\n          <p>Your estimated bill for charges on the number of users and related
costs will take 48\n          hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
          monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n          </note>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required": {}
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>The identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
           "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
      "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

```
subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                 "smithy.api#required": {}
               }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/DisassociateUser"
          },
          "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
```

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            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
```

```
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
```

```
            "traits": {
                "smithy.api#documentation": "<p>An object that details the registered identity providers product related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
```

```
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "InstanceId": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
```

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
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      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
            "sdkId": "License Manager User Subscriptions",
            "arnNamespace": "license-manager-user-subscriptions",
            "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-user-subscriptions"
           },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
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              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",
              "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
```

```
                "x-amzn-requestid",
                "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
              "version": "1.0",
              "parameters": {
                "Region": {
                  "builtIn": "AWS::Region",
                  "required": false,
                  "documentation": "The AWS region used to dispatch the request.",
                  "type": "String"
                },
                "UseDualStack": {
                  "builtIn": "AWS::UseDualStack",
                  "required": true,
                  "default": false,
                  "documentation": "When true, use the dual-stack
 endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                  "type": "Boolean"
                },
                "UseFIPS": {
                  "builtIn": "AWS::UseFIPS",
                  "required": true,
                  "default": false,
                  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
                  "type": "Boolean"
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                "Endpoint": {
                  "builtIn": "SDK::Endpoint",
                  "required": false,
                  "documentation": "Override the endpoint used to send this request",
                  "type": "String"
                }

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                "conditions": [
                  {
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                    "argv": [
                      {
```

```
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
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                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },

                  true
                ]
              }
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            "type": "error"
          },
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                "fn": "booleanEquals",
                "argv": [
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                  true
                ]
              }
            ],

      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
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            "conditions": [],
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                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
```

```
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            ]
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                "argv": [

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                    "ref": "Region"
                  }
                ]
              }
            ],
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                    "fn": "aws.partition",
                    "argv": [
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                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",

"rules": [
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                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
```

```
                "ref": "UseDualStack"

              },
              true
            ]
          }
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        "type": "tree",
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                "argv": [
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                    "fn": "getAttr",

"argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
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              {
                "fn": "booleanEquals",
                "argv": [
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                  {

        "fn": "getAttr",
                      "argv": [
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                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
```

```
            "conditions": [],
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                                       "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                       "properties": {},
                                       "headers": {}
                                    },
                                    "type": "endpoint"
                                 }
                              ]
                           },
                           {
                              "conditions": [],
                              "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                               "type": "error"
                           }
                        ]
                     },
                     {
                        "conditions": [
                           {
                              "fn": "booleanEquals",
                              "argv": [
                                 {
                                    "ref": "UseFIPS"
                                 },
                                 true
                              ]
                           }
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                              "conditions": [
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                                       {
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                                          "argv": [
                                             {
                                                "ref": "PartitionResult"
                                             },
                                             "supportsFIPS"
```

```
                                    ]
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                                        "headers": {}

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                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ]
                },
                {
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                            "argv": [
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                                    "ref": "UseDualStack"
                                },
                                true
                            ]
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                                {
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                                    "argv": [
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                                        {
```

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                                    "fn": "getAttr",
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                                            "ref": "PartitionResult"
                                        },
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                                    ]
                                }
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                },
                {
                    "conditions": [],
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                    "type": "error"
                }
            ]
        },
        {
            "conditions": [],
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
}
]
```

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        },
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[],
          "error": "Invalid Configuration: Missing Region",
          "type": "error"
        }
      ]
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    "smithy.rules#endpointTests": {
      "testCases": [
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          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
            }
          },

        "params": {
            "Region": "us-east-1",
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```
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
            }
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          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
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          "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
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        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },

      "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
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        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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        }
      },
      "params": {
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        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },

  "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
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    },
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      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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        }
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      "params": {
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                "UseFIPS": true,
                "UseDualStack": false
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        },
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            "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
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                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
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                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },

    "params": {
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                "UseFIPS": false,
                "UseDualStack": false
            }
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        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
                "endpoint": {
```

```
            "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
          }
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": false,
          "UseDualStack":
true
        }
      },
      {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
          }
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
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this partition does not support one or both"
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        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
```

```
        }
      },
      {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
        "expect": {
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          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "For custom endpoint with fips enabled and dualstack disabled",
        "expect": {
          "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
        },
        "params": {
          "Region": "us-east-1",
           "UseFIPS": true,
          "UseDualStack": false,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "For custom endpoint with fips disabled and dualstack enabled",
        "expect": {
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": false,
          "UseDualStack": true,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "Missing region",
        "expect": {
           "error": "Invalid Configuration: Missing Region"
        }
      }
    ],
    "version": "1.0"
```

```
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/identity-provider/ListIdentityProviders"
        },
        "smithy.api#paginated":
{
          "inputToken": "NextToken",
          "outputToken": "NextToken",
          "pageSize": "MaxResults",
          "items": "IdentityProviderSummaries"
        }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
          "type":
 "structure",
          "members": {
            "InstanceSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
           },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
```

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        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
 that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
```

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }

},
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of a product for a user.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusMessage": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        },
        "SubscriptionStartDate": {
```

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                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
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                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
              },
              {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
              }
            ],
            "traits": {
              "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
              "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/RegisterIdentityProvider"
              },
              "smithy.api#idempotent": {}
            }
          },
          "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
            "type": "structure",
            "members": {
              "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                  "smithy.api#required": {}
                }
              },
              "Product": {
                "target": "smithy.api#String",
                "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
                }
              },
              "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                  "smithy.api#documentation": "<p>The registered identity providers product related configuration
 settings such as the\n      subnets to provision VPC endpoints.</p>"
                }
              }
            }
          },
          "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
            "type": "structure",
            "members": {
              "IdentityProviderSummary":
```

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{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
```

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        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

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            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n         <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n         hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n         monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n         </note>",
            "smithy.api#http": {
               "code": 200,
               "method": "POST",
               "uri": "/user/StartProductSubscription"
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
         "type": "structure",
         "members": {
            "Username": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "Product": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {

           "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

```
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
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        "UpdateSettings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n          <li>\n            <p>Subnets which you want to add to provision VPC endpoints.</p>\n          </li>\n
        <li>\n            <p>Subnets which you want to remove the VPC endpoints from.</p>\n          </li>\n
<li>\n            <p>Security group ID which permits traffic to the VPC endpoints.</p>\n          </li>\n        </ul>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
      "type": "structure",
      "members": {
        "IdentityProviderSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
          "traits": {
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
      "type": "structure",
      "members": {
        "AddSubnets": {

         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
```

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 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
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            "namespace": "*"
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            "namespace": "*"
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            "namespace": "*"
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        {
            "id": "HttpUriConflict",
            "namespace": "*"
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        "namespace": "*"
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"shapes": {
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    "type": "service",
    "version": "2018-08-01",
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        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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        "target": "com.amazonaws.licensemanager#CheckoutLicense"
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        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
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        "target": "com.amazonaws.licensemanager#CreateLicense"
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        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
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        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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      {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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        "target": "com.amazonaws.licensemanager#CreateToken"
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      "target": "com.amazonaws.licensemanager#DeleteLicense"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
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      "target": "com.amazonaws.licensemanager#DeleteToken"
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      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

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      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
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      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
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      "target": "com.amazonaws.licensemanager#GetServiceSettings"
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      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
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},
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   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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   "target": "com.amazonaws.licensemanager#ListLicenses"
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   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
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{

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   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
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},
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},
{
   "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
{
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          {
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          },
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            "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
          },
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            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
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            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
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            "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
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            "arnNamespace": "license-manager",
            "cloudFormationName": "LicenseManager",
            "cloudTrailEventSource": "licensemanager.amazonaws.com",
            "endpointPrefix": "license-manager"
          },
          "aws.auth#sigv4": {
            "name": "license-manager"
          },
          "aws.protocols#awsJson1_1": {},
          "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
          "smithy.api#title": "AWS License Manager",
          "smithy.api#xmlNamespace": {
            "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
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            "parameters": {
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                "required": false,
                "documentation": "The AWS region used to dispatch the request.",
                "type": "String"
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              "default": false,
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support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
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              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send
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endpoint, dispatching the request will return an error.",
              "type": "Boolean"
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              "required": false,
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              "type": "String"
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            "type": "error"
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            "type": "error"
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            },
            "type": "endpoint"
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            "argv": [
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                        "headers": {}

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                    "type": "endpoint"
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both",
            "type": "error"
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                    "argv": [
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                        "ref": "PartitionResult"
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                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [

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                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
```

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partition does not support FIPS",
                  "type": "error"
                }
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                          "fn": "getAttr",
                          "argv": [
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                              "ref": "PartitionResult"
                            },

    "supportsDualStack"
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                        ]
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                        ]
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                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
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                    "headers": {}
                },
                "type": "endpoint"
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  "type": "error"
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      "expect": {
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          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
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      "params": {
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    "expect": {
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      }
    },
    "params": {
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      "UseFIPS": false,
      "UseDualStack": false
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    "expect": {
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    "params": {
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      "UseFIPS": false,
      "UseDualStack": false
    }
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    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
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```
      },
      "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
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        "UseFIPS": false,
        "UseDualStack": false
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      "params": {
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            "params": {
              "Region": "ap-southeast-3",
              "UseFIPS": false,
              "UseDualStack": false
            }
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            "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
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                "url": "https://license-manager.ca-central-1.amazonaws.com"
              }
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              "UseFIPS": false,
              "UseDualStack": false
            }
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            "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
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            "params": {
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              "UseFIPS": false,
              "UseDualStack": false
            }
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disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.eu-north-1.amazonaws.com"
              }
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        "UseFIPS": false,
        "UseDualStack": false
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      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
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        "endpoint": {
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        }
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"eu-south-1",
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        "UseDualStack": false
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      "params": {
        "Region": "eu-west-1",
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        "UseDualStack": false
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      "endpoint": {
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      "params": {
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        "UseDualStack": false
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"UseDualStack": false
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            "UseDualStack": false
          }
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            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
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          "params": {
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            "UseDualStack": false
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},
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          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
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        },
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         },
          "params": {
            "Region": "us-east-2",
            "UseFIPS": false,
            "UseDualStack": false
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          "expect": {
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          "params": {
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            "UseDualStack": false
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        {
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us-west-1 with FIPS disabled and DualStack disabled",
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                      "UseDualStack": false
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                      }
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                    "params": {
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            }
          },
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          }
        },
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          "expect": {
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"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
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      "expect": {
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          "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
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      "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack": false

}
    },
    {
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        }
      },
      "params": {
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        "UseFIPS": true,
        "UseDualStack": true
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    },
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        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
```

```
            "UseDualStack": true
          }
        },

        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
```

```
                    "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-west-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-fips.us-gov-east-1.api.aws"
                }
            },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": false
```

```
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled
but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
```

```
            "UseDualStack": false
          }
        },

        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },

    "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
```

```
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "UseFIPS": false,

        "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                "expect": {
                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error":
 "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
```

```
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
```

```
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant
ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
```

```
      "traits": {
        "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
      "type": "enum",
      "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
          }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

   "type": "enum",
      "members": {
        "CREATE_GRANT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CreateGrant"
          }
        },
        "CHECKOUT_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutLicense"
          }
        },
        "CHECKOUT_BORROW_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutBorrowLicense"
```

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
          }
        },
        "com.amazonaws.licensemanager#BorrowConfiguration": {
          "type": "structure",
          "members": {
            "AllowEarlyCheckIn": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxTimeToLiveInMinutes": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
              }
            }

},
          "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#BoxBoolean": {
          "type": "boolean"
        },
        "com.amazonaws.licensemanager#BoxInteger": {
          "type": "integer"
        },
        "com.amazonaws.licensemanager#BoxLong": {
          "type": "long"
        },
        "com.amazonaws.licensemanager#CheckInLicense": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#AuthorizationException"

            },
                {
                    "target": "com.amazonaws.licensemanager#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
            }
        },
        "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
            "type": "structure",
            "members": {
                "LicenseConsumptionToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License consumption token.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Beneficiary": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License beneficiary.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
```

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    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
               "target": "com.amazonaws.licensemanager#ClientToken",
               "traits": {
                  "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
               }
            },
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>"
               }
            },
            "EntitlementsAllowed":
{
               "target": "com.amazonaws.licensemanager#EntitlementDataList",
               "traits": {
                  "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
               }
            },
            "NodeId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Node ID.</p>"
               }
            },
            "SignedToken": {
               "target": "com.amazonaws.licensemanager#SignedToken",
               "traits": {
                  "smithy.api#documentation": "<p>Signed token.</p>"
               }
            },
```

```
            "IssuedAt": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
               }
            },
            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
               }
            },
            "CheckoutMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about constraints.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
          },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n        <p>If the
 account that created the license is the same that is performing the check out, you must\n        specify the account
 as the beneficiary.</p>\n        </note>"
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
          "type": "structure",
          "members": {
            "ProductSKU": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product
 SKU.</p>",
                "smithy.api#required": {}
              }
            },
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>",
                "smithy.api#required": {}
              }
            },
            "KeyFingerprint": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                "smithy.api#required": {}
              }
            },
```

```
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",

        "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Beneficiary": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            }
          },
          "traits": {

          "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
          "type": "structure",
          "members": {
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
```

```
            },
            "EntitlementsAllowed": {
               "target": "com.amazonaws.licensemanager#EntitlementDataList",
               "traits": {
                  "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
               }
            },
             "SignedToken": {
               "target": "com.amazonaws.licensemanager#SignedToken",
               "traits": {
                  "smithy.api#documentation": "<p>Signed token.</p>"
               }
            },
            "NodeId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Node ID.</p>"
               }
            },
            "IssuedAt": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
               }
            },
            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
               }
            },
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutType": {
         "type": "enum",
         "members": {
            "PROVISIONAL": {
               "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
      },
      "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
```

```
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

    "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
          },
          "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
          },
          "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target":
 "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
 license\n            entitlements with a specific Amazon Web Services account, an organization, or an\n
 organizational unit (OU). For more
  information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
 licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrantRequest": {
```

```
        "type": "structure",
        "members": {
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}

    }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n        <li>\n        <p>An Amazon Web Services
account, which includes only the account specified.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n        </li>\n        </ul>\n
<ul>\n
        <li>\n        <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

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                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersion":
    {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

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            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
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            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
    "traits": {
      "smithy.api#documentation": "<p>Creates a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
       },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Name of the license configuration.</p>",
```

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                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
             "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
          <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
```

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": " Tags to add to the license configuration. "
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": " Product information. "
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                 }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
```

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the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
{
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

          "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
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            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
              "smithy.api#required": {}

        }
          },
```

```
            "ReportContext": {
              "target": "com.amazonaws.licensemanager#ReportContext",
              "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
              }
            },
            "ReportFrequency": {
              "target": "com.amazonaws.licensemanager#ReportFrequency",
              "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientRequestToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique,
 case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
              "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn":
 {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "Issuer": {
                "target": "com.amazonaws.licensemanager#Issuer",
                "traits": {
                    "smithy.api#documentation": "<p>License issuer.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region for the license.</p>",
                    "smithy.api#required": {}
```

```
    }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>",
            "smithy.api#required": {}
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        }
      },
```

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target":
"com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
              }
            },
            "LicenseName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License name.</p>",
                "smithy.api#required": {}
              }
            },
            "ProductName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product name.</p>",
                "smithy.api#required": {}
              }
            },
            "Issuer": {
              "target": "com.amazonaws.licensemanager#Issuer",
```

```
            "traits":
{
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "SourceVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
              }
            }
          },
          "traits": {

 "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseStatus",
              "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output":
```

```
{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n          <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits":
{
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                "smithy.api#required": {}
            }
        },
        "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
            }
        },
        "ExpirationInDays": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
            }
        },
        "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n          to the amr claim of the JWT token.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
      "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
```

```
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

```
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

  "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
```

```
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
         "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
         "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
         {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
         {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
         {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
         {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
         {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
         {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
         },

    {
            "target": "com.amazonaws.licensemanager#ValidationException"
         }
      ],
      "traits": {
         "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
         "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token ID.</p>",
               "smithy.api#required": {}
            }
         }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}

        }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
          "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "JWT_PS384"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
            }
          },
          "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
              "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
          },
          "Overage": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target":
"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement
data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
            "NONE": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "None"
                }
            },
            "SECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Seconds"
                }
            },
            "MICROSECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Microseconds"
                }
            },
            "MILLISECONDS": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "Milliseconds"
                }
            },
            "BYTES": {
                "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Bytes"
            }
          },
          "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes"
            }
          },
          "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes"
            }
          },
          "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes"
            }
          },
          "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabytes"
            }
          },
          "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bits"
            }
          },
          "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobits"
            }
          },
          "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

```
            "BITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Bits/Second"
              }
            },
            "KILOBITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
              }
            },
            "MEGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
              }
            },
            "GIGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
          "type": "structure",
```

```
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Bytes"
      }
    },
    "KILOBYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Kilobytes"
       }
    },
    "MEGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabytes"
      }
    },
    "GIGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabytes"
      }
    },
    "TERABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabytes"
      }
    },
    "BITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Bits"
      }
    },
    "KILOBITS": {
      "target": "smithy.api#Unit",
      "traits": {

       "smithy.api#enumValue": "Kilobits"
      }
    },
    "MEGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits"
      }
    },
    "GIGABITS": {
      "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
          },
          "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes/Second"
            }
          },
          "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes/Second"
            }
          },
          "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes/Second"
            }
          },
          "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Terabytes/Second"
            }
          },
```

```
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },

     "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
          }
        },
        "COUNT_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count/Second"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage name.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "ConsumedValue": {
          "target": "com.amazonaws.licensemanager#String",

        "traits": {
            "smithy.api#documentation": "<p>Resource usage consumed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxCount": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
          }
        },
        "Unit": {
          "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
         "type": "structure",
         "members": {
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>",
                  "smithy.api#required": {}

          }
            },
            "DryRun": {
               "target": "com.amazonaws.licensemanager#Boolean",
               "traits": {
                  "smithy.api#default": false,
                  "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
         "type": "structure",
         "members": {
```

```
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>"
               }
            },

            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#FailedDependencyException": {
         "type": "structure",
         "members": {
            "Message": {
               "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
               "target": "com.amazonaws.licensemanager#String"
            }
         },
         "traits": {
            "aws.protocols#awsQueryError": {
               "code": "FailedDependency",
               "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
         }
      },
      "com.amazonaws.licensemanager#Filter": {
         "type": "structure",
         "members": {
            "Name": {
               "target": "com.amazonaws.licensemanager#FilterName",
               "traits": {
                  "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
               }
            },
```

```
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
```

```
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Filter",
          "traits": {
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
          "Token": {
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```
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
{
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
```

```
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
```

```
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
      "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
  },
  "ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
          }

    },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
          }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
          }
        },
        "Tags": {
          "target": "com.amazonaws.licensemanager#TagList",
           "traits": {
            "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {
          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        },
        "DisassociateWhenNotFound": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
              "smithy.api#documentation": "<p>When
 true, disassociates a resource when software is uninstalled.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
```

```
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
      "type": "structure",
      "members": {
        "LicenseConversionTaskId": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
          "traits": {
            "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
          }
        },
        "SourceLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
          }
        },
        "DestinationLicenseContext": {
          "target": "com.amazonaws.licensemanager#LicenseConversionContext",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
          }
```

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
      },
      "errors": [
        {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
               }
            },
            "OrganizationConfiguration": {
               "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
               }
            },
            "EnableCrossAccountsDiscovery": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
               }

         },
            "LicenseManagerResourceShareArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#Grant": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                  "smithy.api#required": {}
               }
            },
            "GrantName": {
```

```
"target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}
            }
          },
          "ParentArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Parent ARN.</p>",
              "smithy.api#required": {}
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>License ARN.</p>",
              "smithy.api#required": {}
            }
          },
          "GranteePrincipalArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantStatus": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>",
              "smithy.api#required": {}
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>Grant status reason.</p>"
             }
          },
```

```
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
              }
            },
            "Options": {
              "target": "com.amazonaws.licensemanager#Options",
              "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#GrantList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Grant"
          }
        },
        "com.amazonaws.licensemanager#GrantStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
              }
            },
            "REJECTED": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
```

```
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
          }

    },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
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ISO8601-UTC format.</p>"
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>"
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
```

```
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
```

```
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidResourceState",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },

    "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
              "smithy.api#documentation": "<p>Condition of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
          "EQUALS": {
            "target": "smithy.api#Unit",
```

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            "traits": {
              "smithy.api#enumValue": "EQUALS"
            }
          },
          "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "NOT_EQUALS"
            }
          },
          "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "BEGINS_WITH"
            }
          },
          "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
               "smithy.api#enumValue": "CONTAINS"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
      },
      "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>",
              "smithy.api#required": {}
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage
 of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>"
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n          and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

           "smithy.api#documentation": "<p>License name.</p>"
            }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {
```

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    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
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            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
          }
        },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

       }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {

          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n          consumed and enforced by License Manager. Components include specifications for the license\n          type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n          must be associated with a host), and the number of licenses purchased and used.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
          "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

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        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
```

```
            "AssociationTime": {
               "target": "com.amazonaws.licensemanager#DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
               }
            },

      "ConsumedLicenses": {
               "target": "com.amazonaws.licensemanager#BoxLong",
               "traits": {
                  "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurations": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionContext": {

   "type": "structure",
         "members": {
            "UsageOperation": {
               "target": "com.amazonaws.licensemanager#UsageOperation",
               "traits": {
                  "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from.  For more information about which platforms correspond to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n         </p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
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            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

         "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
```

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            },
            "FAILED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "FAILED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
         }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
         "type": "enum",
         "members": {
            "VCPU": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "vCPU"
               }
            },
            "INSTANCE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Instance"
               }
            },
            "CORE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Core"
               }
            },
            "SOCKET": {
               "target": "smithy.api#Unit",
                "traits": {
                  "smithy.api#enumValue": "Socket"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseDeletionStatus": {
         "type": "enum",
         "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {

              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
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            "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",

          "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
            }
          },
          "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
            }
```

```
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlement usages.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

      }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "LicenseUsageFailure",
          "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
         },
         "output": {

      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n         <p>Resource associations need not consume licenses from a license
configuration. \n         For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
         "type": "structure",
         "members": {
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results
to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
```

\n \n <code>GranteePrincipalARN</code>\n \n \n
\n \n <code>ProductSKU</code>\n \n \n \n
\n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

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        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

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<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
              }
            },
            "traits": {
              "smithy.api#input": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
            "type": "structure",
            "members": {
              "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
              },
              "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#output": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
            "type": "operation",
            "input": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
            },
            "output": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
            },
            "errors": [
              {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
              },
              {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
              },
              {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
              },
              {
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                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

   "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
```

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            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n       <ul>\n          <li>\n             <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n       </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits":
{
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
```

```
        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
```

```
            "traits": {

      "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
          "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

       "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
            }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

```
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {

   "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while
   specifying the\n         recipient as this Amazon Web Services account, your organization, or an organizational unit\n
      (OU) to which this member account belongs.</p>"
         }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
            "smithy.api#required": {}
          }
        },
        "Filters": {
```

```
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n      <li>\n      <p>\n      <code>ParentArn</code>\n      </p>\n      </li>\n
<li>\n      <p>\n      <code>GranteePrincipalArn</code>\n      </p>\n      </li>\n      </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
```

```
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicenses": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
```

```
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {

      "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
              "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

         "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
               "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
          "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "Filters": {
        "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> |  \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
```

```
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Token IDs.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
      "type": "structure",
      "members": {
        "Tokens": {
          "target": "com.amazonaws.licensemanager#TokenList",
          "traits": {
            "smithy.api#documentation": "<p>Received token details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n          <li>\n            <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
          Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n
<li>\n            <p>\n              <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n            Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n            <p>\n
<code>resourceAccount</code> - The ID of the account that owns the resource. \n            Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
          "type": "structure",
          "members": {

 "LicenseConfigurationUsageList": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#String"
   },
   "traits": {
      "smithy.api#length": {
         "min": 0,
         "max": 3
      }
   }
},
"com.amazonaws.licensemanager#Message": {
   "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
   "type": "structure",
   "members": {
      "Name": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The key name.</p>"
         }
      },

"Value": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The value.</p>"
         }
      }
   },
   "traits": {
      "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
   }
},
"com.amazonaws.licensemanager#MetadataList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#Metadata"
   }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
```

```
"<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n          <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n          <p>The following filters and are supported when
the resource type \n          is <code>SSM_MANAGED</code>:</p>\n
          <ul>\n            <li>\n              <p>\n                <code>Application Name</code> - The name of the
application.\n              Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n              Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n
<code>Application Version</code> - The version of the application.\n              Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n                <code>Platform
```

```
Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>.</p>\n
</li>\n <li>\n <p>\n <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
</li>\n <li>\n <p>\n <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n </p>\n </li>\n <li>\n <p>\n
<code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n Logical operator is <code>NOT_EQUALS</code>.</p>\n </li>\n
<li>\n <p>\n <code>License Included</code> - The type of license included.\n Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are:
<code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-
web</code> | \n <code>windows-server-datacenter</code>.</p>\n </li>\n </ul>\n
<p>The following filters and logical operators are supported when the resource type\n is
<code>RDS</code>:</p>\n <ul>\n <li>\n <p>\n <code>Engine Edition</code> -
The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p>\n </li>\n <li>\n <p>\n <code>License Pack</code> - The license
pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data
guard</code> | \n <code>diagnostic pack sqlt</code> | \n
<code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>.</p>\n
</li>\n </ul>",
                "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#ProductInformationFilter": {
        "type": "structure",
        "members": {
          "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Filter name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

          "traits": {
              "smithy.api#documentation": "<p>Filter value.</p>"
            }
          },
```

```
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
       }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
      "type": "structure",
      "members": {
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
```

```
            "aws.protocols#awsQueryError": {
              "code": "RateLimitExceeded",
              "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
          }
        },
        "com.amazonaws.licensemanager#ReceivedMetadata": {
          "type": "structure",
          "members": {
            "ReceivedStatus": {
              "target": "com.amazonaws.licensemanager#ReceivedStatus",
              "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
              }
            },
            "ReceivedStatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
              "traits": {
                "smithy.api#documentation": "<p>Received
 status reason.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReceivedStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
          "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

```
            "NONE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "None"
              }
            },
            "WEEKLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Weekly"
              }
            },
            "MONTHLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Monthly"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {
            "licenseConfigurationArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {

          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n         The only supported value is <code>1</code>.</p>"
              }
            },
            "period": {
```

```
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
          },
          "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
```

```
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }

      }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
         "type": "string",
         "traits": {
            "smithy.api#length": {
               "min": 1,
               "max": 100
            }
         }
      },
      "com.amazonaws.licensemanager#ReportType": {
```

```
        "type": "enum",
        "members": {
          "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

      },
          "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportTypeList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ReportType"
        }
      },
      "com.amazonaws.licensemanager#ResourceInventory": {
        "type": "structure",
        "members": {
          "ResourceId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "Platform": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Platform of the resource.</p>"
          }
        },
        "PlatformVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
          }
        },
        "ResourceOwningAccountId":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ResourceInventory"
      }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "ResourceLimitExceeded",

           "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
      "type": "structure",
      "members": {
```

```
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "RDS"
        }
      },
      "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
           "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
        }
      }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

```
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Data specified by the caller.</p>"
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
            }
          }
        },
        "traits": {

          "smithy.api#documentation": "<p>Describes a token.</p>"
        }
      },
      "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#TokenData"
        }
      },
      "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 4096
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
          "REFRESH_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REFRESH_TOKEN"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

```
    "com.amazonaws.licensemanager#UntagResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
             "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

  "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
  configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New description of the license configuration.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>New product information.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits":
 {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a
report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest":
{
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

```
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n        <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n        </li>\n        <li>\n        <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n        </li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>The report context.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits":
 {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
```

```
        }
      },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
            "smithy.api#required": {}
          }
        },
        "AddLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
          }
        },
        "RemoveLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

            }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 50
                }
            }
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

            "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.212 aws-aws-sdk-go-v2-internal-endpoints 2.5.8

1.212.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options)) (*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
```

```
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
```

```
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
        "type": "integer"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
        "type": "long"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
           "Name": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
              }
           },
           "Values": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
              "traits": {
                 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
              }
           },
```

```
        "Operator": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
             "traits": {
                "smithy.api#documentation": "<p>An operator for filtering results.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {

        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/GetServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
      "type": "structure",
      "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
          "traits": {
            "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
          }
        },
        "StatusMessage": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
          "traits": {
            "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
          }
        },
        "HomeRegions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
      "type": "structure",
      "members": {
```

```
        "AmiId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
          }
        },
        "InstanceID": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
          }
        },
        "InstanceType": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The instance type of the resource.</p>"
          }

      },
        "AccountID": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
          }
        },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of the instance.</p>"
          }
        },
        "Region": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
          }
        },
        "UsageOperation": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
          }
        },
        "ProductCode": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
            }
          },
          "LastUpdatedTime": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
            }
          },
          "SubscriptionName": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
           }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
          {
```

```
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
          }
        ],

    "traits": {
          "aws.api#service": {
            "sdkId": "License Manager Linux Subscriptions",
            "arnNamespace": "license-manager-linux-subscriptions",
            "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-linux-subscriptions"
          },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",

"x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
              "x-amzn-requestid",
              "x-amzn-trace-id"
            ]
          },
          "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
```

```
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager Linux Subscriptions",
            "smithy.rules#endpointRuleSet": {
               "version": "1.0",
               "parameters": {
                  "Region": {
                     "builtIn": "AWS::Region",
                     "required": false,
                     "documentation": "The
 AWS region used to dispatch the request.",
                     "type": "String"
                  },
                  "UseDualStack": {
                     "builtIn": "AWS::UseDualStack",
                     "required": true,
                     "default": false,
                     "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                     "type": "Boolean"
                  },
                  "UseFIPS": {
                     "builtIn": "AWS::UseFIPS",
                     "required": true,
                     "default": false,
                     "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

                   "type": "Boolean"
                  },
                  "Endpoint": {
                     "builtIn": "SDK::Endpoint",
                     "required": false,
                     "documentation": "Override the endpoint used to send this request",
                     "type": "String"
                  }
               },
               "rules": [
                  {
                     "conditions": [
                        {
                           "fn": "isSet",
                           "argv": [
                              {
                                 "ref": "Endpoint"
                              }
                           ]
                        }
                     ],
```

```
 "type": "tree",
 "rules": [
    {

   "conditions": [
          {
             "fn": "booleanEquals",
             "argv": [
                {
                   "ref": "UseFIPS"
                },
                true
             ]
          }
       ],
       "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
       "type": "error"
    },
    {
       "conditions": [],
       "type": "tree",
       "rules": [
          {

     "conditions": [
                {
                   "fn": "booleanEquals",
                   "argv": [
                      {
                         "ref": "UseDualStack"
                      },
                      true
                   ]
                }
             ],
             "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
             "type": "error"
          },
          {
             "conditions": [],

"endpoint": {
                "url": {
                   "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
             },
```

```
                        "type": "endpoint"
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

    "argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ],

"assign": "PartitionResult"
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseFIPS"
                                            },
                                            true
```

```
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                ]
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                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]

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                       "supportsDualStack"
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
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                    "type": "endpoint"
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one or both",
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      "rules": [
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                                                  },
                                                  "supportsFIPS"
                                                ]
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                                                    "headers": {}

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                                          "type": "error"
                                        }
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                                                         "argv": [
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                                                               "ref": "PartitionResult"
                                                            },
                                                            "supportsDualStack"
                                                         ]
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                                                            "headers": {}
```

```
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                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
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]
},
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"type": "error"
}
]
}
]
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"smithy.rules#endpointTests": {
"testCases": [
{
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        "UseFIPS": true,
        "UseDualStack": true
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        }
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        "UseFIPS": true,
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      }
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        }
      },
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    },
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      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
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        }
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    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
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      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
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  },
  {
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    "expect": {
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                }
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                "Region": "us-gov-east-1",
                "UseFIPS": true,
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                "endpoint": {
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                }
            },
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                }
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                "Region": "us-gov-east-1",
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      "UseDualStack": true
    }
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  {
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        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
       }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
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  },
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    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
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      "UseFIPS": false,
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            }
        },
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              }
            },
            "params": {
              "Region": "us-iso-east-1",
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            }
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        {
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            "expect": {
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              }
            },
            "params": {
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              "UseFIPS": true,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
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                "UseDualStack": true
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        {
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                }
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            "params": {
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            "expect": {
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                }
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            "params": {
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            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

      "expect": {
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                    "url": "https://example.com"
                }
            },
            "params": {
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                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
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            {
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              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
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            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
```

```
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
          "type": "structure",
          "members": {
            "SourceRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
               "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "OrganizationIntegration": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
              "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
          "type":
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          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
              "method": "POST",
              "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "Instances"
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
          "type": "structure",
          "members": {
            "Filters": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n      <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>AmiID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>AccountID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Status</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Region</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>UsageOperation</code>\n      </p>\n      </li>\n      <li>\n
    <p>\n      <code>ProductCode</code>\n      </p>\n      </li>\n      <li>\n      <p>\n
     <code>InstanceType</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n
        <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
        }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
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        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n
      <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n
          <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
        },
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              "min": 1,
                "max": 16384
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          }
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      "traits": {
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parameters in request increases."
      }
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      "members": {
        "Subscriptions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
          "traits": {
            "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
          }
        },
        "NextToken": {
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          "traits": {
            "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
          }
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      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
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      "traits": {
        "smithy.api#enum": [
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            "name": "EQUAL",
            "value": "Equal",
            "documentation": "Equal operator"
          },
          {
            "name": "NOT_EQUAL",
            "value": "NotEqual",
```

```
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
  },

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

 {
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
```

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            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
            },
            {
              "name": "Failed",
              "value": "Failed",
              "documentation": "Failed status"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
          "target": "smithy.api#String"
        },
        "value": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

```
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
      },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
            "smithy.api#required": {}
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
```

```
  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
```

```
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
          }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
          "type": "structure",
          "members": {
              "message": {
                  "target": "smithy.api#String"
              }
          },
          "traits": {
              "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
              "smithy.api#error": "client"
          }
      }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
  - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
```

```
// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:        region,
 ServiceID:     ServiceID,
 OperationName:
"CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

```
"<p>Details about an Active Directory identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n          <note>\n          <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n          </note>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required": {}
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>The identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
           "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
      "type": "integer"
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    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
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subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                 "smithy.api#required": {}
               }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/DisassociateUser"
          },
          "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
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            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
```

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            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
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            "traits": {
                "smithy.api#documentation": "<p>An object that details the registered identity providers product related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
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            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
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                "smithy.api#required": {}
            }
        },
        "InstanceId": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
```

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            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
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            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
            "sdkId": "License Manager User Subscriptions",
            "arnNamespace": "license-manager-user-subscriptions",
            "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-user-subscriptions"
           },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",
              "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
```

```
                "x-amzn-requestid",
                "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
              "version": "1.0",
              "parameters": {
                "Region": {
                  "builtIn": "AWS::Region",
                  "required": false,
                  "documentation": "The AWS region used to dispatch the request.",
                  "type": "String"
                },
                "UseDualStack": {
                  "builtIn": "AWS::UseDualStack",
                  "required": true,
                  "default": false,
                  "documentation": "When true, use the dual-stack
 endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                  "type": "Boolean"
                },
                "UseFIPS": {
                  "builtIn": "AWS::UseFIPS",
                  "required": true,
                  "default": false,
                  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
                  "type": "Boolean"
                },
                "Endpoint": {
                  "builtIn": "SDK::Endpoint",
                  "required": false,
                  "documentation": "Override the endpoint used to send this request",
                  "type": "String"
                }

            },
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "isSet",
                    "argv": [
                      {
```

```
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },

                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],

      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
```

```
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [

    {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",

"rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
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                "ref": "UseDualStack"

              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",

"argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              },
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

        "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
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            "conditions": [],
                                    "endpoint": {
                                       "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                       "properties": {},
                                       "headers": {}
                                    },
                                    "type": "endpoint"
                                 }
                              ]
                           },
                           {
                              "conditions": [],
                              "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                               "type": "error"
                           }
                        ]
                     },
                     {
                        "conditions": [
                           {
                              "fn": "booleanEquals",
                              "argv": [
                                 {
                                    "ref": "UseFIPS"
                                 },
                                 true
                              ]
                           }
                        ],
                        "type": "tree",

         "rules": [
                           {
                              "conditions": [
                                 {
                                    "fn": "booleanEquals",
                                    "argv": [
                                       true,
                                       {
                                          "fn": "getAttr",
                                          "argv": [
                                             {
                                                "ref": "PartitionResult"
                                             },
                                             "supportsFIPS"
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                                    ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                },
                                    "type": "endpoint"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
```

```
                                    "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {

                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does
 not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
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            },
            {
              "conditions":
[],
              "error": "Invalid Configuration: Missing Region",
              "type": "error"
            }
          ]
        },
        "smithy.rules#endpointTests": {
          "testCases": [
            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
              "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
              },

            "params": {
                  "Region": "us-east-1",
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```
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },

      "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
```

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      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },

  "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
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                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },

    "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect":
{
                "endpoint": {
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```
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack":
true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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      "expect": {
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          "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
```

```
        }
      },
      {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
        "expect": {
          "endpoint": {
            "url": "https://example.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "For custom endpoint with fips enabled and dualstack disabled",
        "expect": {
          "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
        },
        "params": {
          "Region": "us-east-1",
           "UseFIPS": true,
          "UseDualStack": false,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "For custom endpoint with fips disabled and dualstack enabled",
        "expect": {
          "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": false,
          "UseDualStack": true,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "Missing region",
        "expect": {
           "error": "Invalid Configuration: Missing Region"
        }
      }
    ],
    "version": "1.0"
```

```
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/identity-provider/ListIdentityProviders"
        },
        "smithy.api#paginated":
{
          "inputToken": "NextToken",
          "outputToken": "NextToken",
          "pageSize": "MaxResults",
          "items": "IdentityProviderSummaries"
        }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
          "type":
 "structure",
          "members": {
            "InstanceSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
           },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "ProductUserSummaries"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
          "type": "structure",
          "members": {
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
```

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                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
 that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
```

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }

},
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of a product for a user.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusMessage": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        },
        "SubscriptionStartDate": {
```

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            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
            }
          },
          "SubscriptionEndDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The end date of a subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary":
```

```
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
```

```
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
               "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n         <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n         hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n         monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n         </note>",
            "smithy.api#http": {
               "code": 200,
               "method": "POST",
               "uri": "/user/StartProductSubscription"
            }
         }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
         "type": "structure",
         "members": {
            "Username": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                  "smithy.api#required": {}
               }
            },
            "IdentityProvider": {
               "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                  "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                  "smithy.api#required": {}
               }
            },
            "Product": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                  "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {

           "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

```
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
        "UpdateSettings": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
          "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n          <li>\n            <p>Subnets which you want to add to provision VPC endpoints.</p>\n          </li>\n
        <li>\n            <p>Subnets which you want to remove the VPC endpoints from.</p>\n          </li>\n
<li>\n            <p>Security group ID which permits traffic to the VPC endpoints.</p>\n          </li>\n        </ul>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
      "type": "structure",
      "members": {
        "IdentityProviderSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
          "traits": {
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
      "type": "structure",
      "members": {
        "AddSubnets": {

         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
```

```
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
        {
            "id": "HttpMethodSemantics",
            "namespace": "*"
        },
        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
        },
        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
```

```
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
    "type": "service",
    "version": "2018-08-01",
    "operations": [
      {
        "target": "com.amazonaws.licensemanager#AcceptGrant"
      },

{
        "target": "com.amazonaws.licensemanager#CheckInLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrant"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
       },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateToken"
      },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
     },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
```

```
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
   "target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
   "target": "com.amazonaws.licensemanager#ListTokens"
},
{
   "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
{
```

```
            "target": "com.amazonaws.licensemanager#RejectGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#TagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UntagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
             "sdkId": "License Manager",
            "arnNamespace": "license-manager",
            "cloudFormationName": "LicenseManager",
            "cloudTrailEventSource": "licensemanager.amazonaws.com",
            "endpointPrefix": "license-manager"
          },
          "aws.auth#sigv4": {
            "name": "license-manager"
          },
          "aws.protocols#awsJson1_1": {},
          "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
          "smithy.api#title": "AWS License Manager",
          "smithy.api#xmlNamespace": {
            "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
          },
          "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
              "Region": {
                "builtIn": "AWS::Region",
                "required": false,
                "documentation": "The AWS region used to dispatch the request.",
                "type": "String"
              },
```

```
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send
 this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant
endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]

                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
```

```
                    ]
                }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
        },
        {

"conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],
            "endpoint": {
                "url": {
                    "ref": "Endpoint"
                 },
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ]
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [
                {
                    "ref": "Region"
                }
            ]
        }
    ],
    "type": "tree",
    "rules": [
```

```
                    {
                      "conditions": [
                        {
                          "fn": "aws.partition",
                          "argv": [
                            {
                              "ref": "Region"
                            }
                          ],
                          "assign": "PartitionResult"
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref":
"UseFIPS"
                                },
                                true
                              ]
                            },
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref": "UseDualStack"
                                },
                                true
                              ]
                            }
                          ],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [
                                {
                                  "fn": "booleanEquals",
                                  "argv": [
                                    true,
                                    {
                                      "fn": "getAttr",
                                      "argv": [
                                        {
```

```
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]

                        }
                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },

    "supportsDualStack"
                            ]
                        }
                    ]
                }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}

                    },
                        "type": "endpoint"
                    }
                ]
                },
                {
                    "conditions": [],
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                    "type": "error"
                }
            ]
        },
```

```
    {
      "conditions": [
        {
          "fn": "booleanEquals",

       "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                true,

{
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [

{
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
```

```
                {
                  "conditions": [],
                  "error": "FIPS is enabled but this
partition does not support FIPS",
                  "type": "error"
                }
              ]
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],
              "type": "tree",
               "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },

    "supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
```

```
                                "properties": {},
                                "headers": {}

                            },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                     "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
  ]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
            "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
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```
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
```

```
      },
      "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
      }

},
    {
      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
      },
      "params": {
        "Region": "ap-southeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-southeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
```

```
        {

    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
          },

         "params": {
            "Region": "ca-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-north-1.amazonaws.com"
            }
```

```
      },
      "params": {
        "Region": "eu-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region":
"eu-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {

      "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
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        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.sa-east-1.amazonaws.com"
             }
          },
          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
            }
          },
          "params": {
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            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }

},
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-2.amazonaws.com"
            }

         },
          "params": {
            "Region": "us-east-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-2",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region
```

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us-west-1 with FIPS disabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager.us-west-1.amazonaws.com"
                      }
                    },
                    "params": {
                      "Region": "us-west-1",
                      "UseFIPS": false,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager-fips.us-west-1.amazonaws.com"
                      }
                    },
                    "params": {

              "Region": "us-west-1",
                      "UseFIPS": true,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager.us-west-2.amazonaws.com"
                      }
                    },
                    "params": {
                      "Region": "us-west-2",
                      "UseFIPS": false,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
                      "endpoint": {
                        "url": "https://license-manager-fips.us-west-2.amazonaws.com"
                      }
                    },
                    "params": {
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            "Region": "us-west-2",
            "UseFIPS": true,
            "UseDualStack": false
          }
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          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,

            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
```

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      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack": false

}
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
         }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
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```
            "UseDualStack": true
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        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
           },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
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                    "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
                  }
                },
                "params": {
                  "Region": "us-gov-west-1",
                  "UseFIPS": true,
                  "UseDualStack": false
                }
              },
              {
                "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager-fips.us-gov-east-1.api.aws"
                  }
                },

    "params": {
                  "Region": "us-gov-east-1",
                  "UseFIPS": true,
                  "UseDualStack": true
                }
              },
              {
                "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                  }
                },
                "params": {
                  "Region": "us-gov-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true
                }
              },
              {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                  }
                },
                "params": {
                  "Region": "us-iso-east-1",
                  "UseFIPS": false,
                  "UseDualStack": false
```

```
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled
but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
```

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            "UseDualStack": false
          }
        },

        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },

    "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
```

```
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,

    "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack enabled",
      "expect": {
        "error":
 "Invalid Configuration: Dualstack and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
      }
    },
    {
```

```
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
```

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      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant
ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
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      "traits": {
        "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
      "type": "enum",
      "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
          }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

   "type": "enum",
      "members": {
        "CREATE_GRANT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CreateGrant"
          }
        },
        "CHECKOUT_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutLicense"
          }
        },
        "CHECKOUT_BORROW_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutBorrowLicense"
```

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
          }
        },
        "com.amazonaws.licensemanager#BorrowConfiguration": {
          "type": "structure",
          "members": {
            "AllowEarlyCheckIn": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxTimeToLiveInMinutes": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                "smithy.api#required": {}
              }
            }

},
          "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#BoxBoolean": {
          "type": "boolean"
        },
        "com.amazonaws.licensemanager#BoxInteger": {
          "type": "integer"
        },
        "com.amazonaws.licensemanager#BoxLong": {
          "type": "long"
        },
        "com.amazonaws.licensemanager#CheckInLicense": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#AuthorizationException"

            },
                {
                    "target": "com.amazonaws.licensemanager#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
            }
        },
        "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
            "type": "structure",
            "members": {
                "LicenseConsumptionToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License consumption token.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Beneficiary": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License beneficiary.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
```

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n         For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },
            "EntitlementsAllowed":
{
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
```

```
            "IssuedAt": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
               }
            },
            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
               }
            },
            "CheckoutMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about constraints.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
          },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n        <p>If the
 account that created the license is the same that is performing the check out, you must\n        specify the account
 as the beneficiary.</p>\n        </note>"
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
          "type": "structure",
          "members": {
            "ProductSKU": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Product
 SKU.</p>",
                "smithy.api#required": {}
              }
            },
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>",
                "smithy.api#required": {}
              }
            },
            "KeyFingerprint": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                "smithy.api#required": {}
              }
            },
```

```
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",

      "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Beneficiary": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            }
          },
          "traits": {

         "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
          "type": "structure",
          "members": {
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
```

```
            },
            "EntitlementsAllowed": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
             "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
              }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutType": {
          "type": "enum",
          "members": {
            "PROVISIONAL": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
      },
      "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
```

```
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

  "traits": {
          "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
          },
          "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
          },
          "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target":
 "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
 license\n            entitlements with a specific Amazon Web Services account, an organization, or an\n
 organizational unit (OU). For more
  information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
 licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrantRequest": {
```

```
        "type": "structure",
        "members": {
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}

    }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n        <li>\n        <p>An Amazon Web Services
account, which includes only the account specified.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n        </li>\n        </ul>\n
<ul>\n
        <li>\n        <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersion":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
    "traits": {
      "smithy.api#documentation": "<p>Creates a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
       },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a license configuration.</p>\n      <p>A license configuration is an abstraction of a customer license agreement that can be\n      consumed and enforced by License Manager. Components include specifications for the license\n      type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n      Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n      license must be associated with a host), and the number of licenses purchased and used.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Name of the license configuration.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
             "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
          <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
```

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": " Tags to add to the license configuration. "
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": " Product information. "
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                 }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
```

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the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
{
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

          "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
              "smithy.api#required": {}

        }
          },
```

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            "ReportContext": {
              "target": "com.amazonaws.licensemanager#ReportContext",
              "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
              }
            },
            "ReportFrequency": {
              "target": "com.amazonaws.licensemanager#ReportFrequency",
              "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientRequestToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique,
 case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
              "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn":
 {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product
name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>",
              "smithy.api#required": {}
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
              "smithy.api#documentation": "<p>License issuer.</p>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region for the license.</p>",
              "smithy.api#required": {}
```

```
    }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>",
            "smithy.api#required": {}
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        }
      },
```

```
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
            }
        },
        "Version": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
```

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        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
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            "traits":
{
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
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```
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "SourceVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
              }
            }
          },
          "traits": {

 "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseStatus",
              "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output":
```

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{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n          <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits":
{
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                "smithy.api#required": {}
            }
        },
        "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
            }
        },
        "ExpirationInDays": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
            }
        },
        "TokenProperties": {
             "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n          to the amr claim of the JWT token.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
      "members": {
        "TokenId": {
          "target": "com.amazonaws.licensemanager#String",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
```

```
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

```
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

  "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
```

```
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
         "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
         "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
         {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
         {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
         {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
         {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
         {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
         {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
         },

    {
            "target": "com.amazonaws.licensemanager#ValidationException"
         }
      ],
      "traits": {
         "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
         "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token ID.</p>",
               "smithy.api#required": {}
            }
         }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}

        }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
          "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "JWT_PS384"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
            }
          },
          "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
              "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
          },
          "Overage": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target":
"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement
data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Bytes"
            }
          },
          "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes"
            }
          },
          "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes"
            }
          },
          "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes"
            }
          },
          "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabytes"
            }
          },
          "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bits"
            }
          },
          "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobits"
            }
          },
          "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

```
            "BITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Bits/Second"
              }
            },
            "KILOBITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
              }
            },
            "MEGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
              }
            },
            "GIGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
          "type": "structure",
```

```
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Bytes"
      }
    },
    "KILOBYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Kilobytes"
       }
    },
    "MEGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabytes"
      }
    },
    "GIGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabytes"
      }
    },
    "TERABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabytes"
      }
    },
    "BITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Bits"
      }
    },
    "KILOBITS": {
      "target": "smithy.api#Unit",
      "traits": {

       "smithy.api#enumValue": "Kilobits"
      }
    },
    "MEGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits"
      }
    },
    "GIGABITS": {
      "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
          },
          "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes/Second"
            }
          },
          "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes/Second"
            }
          },
          "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes/Second"
            }
          },
          "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Terabytes/Second"
            }
          },
```

```
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },

    "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
          }
        },
        "COUNT_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count/Second"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage name.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "ConsumedValue": {
          "target": "com.amazonaws.licensemanager#String",

        "traits": {
            "smithy.api#documentation": "<p>Resource usage consumed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxCount": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
          }
        },
        "Unit": {
          "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
         "type": "structure",
         "members": {
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>",
                  "smithy.api#required": {}

          }
            },
            "DryRun": {
               "target": "com.amazonaws.licensemanager#Boolean",
               "traits": {
                  "smithy.api#default": false,
                  "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
         "type": "structure",
         "members": {
```

```
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>"
                }
            },

            "Expiration": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
                "target": "com.amazonaws.licensemanager#String"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FailedDependency",
                "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
        }
    },
    "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#FilterName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
                }
            },
```

```
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
```

```
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Filter",
          "traits": {
            "smithy.api#xmlName": "item"
          }
        }
      },
      "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
           "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
          "Token": {
```

```
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                    "smithy.api#required": {}
                }
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenResponse":
{
        "type": "structure",
        "members": {
            "AccessToken": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Temporary access token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
```

```
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
```

```
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
      "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
  },
  "ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
          }

    },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
          }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
          }
        },
        "Tags": {
          "target": "com.amazonaws.licensemanager#TagList",
           "traits": {
            "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {
          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        },
        "DisassociateWhenNotFound": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
              "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
```

```
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
          "type": "structure",
          "members": {
            "LicenseConversionTaskId": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
              "traits": {
                "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
              }
            },
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
              }
            },
            "SourceLicenseContext": {
              "target": "com.amazonaws.licensemanager#LicenseConversionContext",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
              }
            },
            "DestinationLicenseContext": {
              "target": "com.amazonaws.licensemanager#LicenseConversionContext",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
              }
            },
            "StatusMessage": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
              "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
              }
```

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
      },
      "errors": [
        {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
               }
            },
            "OrganizationConfiguration": {
               "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
               }
            },
            "EnableCrossAccountsDiscovery": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
               }

         },
            "LicenseManagerResourceShareArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#Grant": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                  "smithy.api#required": {}
               }
            },
            "GrantName": {
```

```
 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                 }
            },
```

```
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
              }
            },
            "Options": {
              "target": "com.amazonaws.licensemanager#Options",
              "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#GrantList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Grant"
          }
        },
        "com.amazonaws.licensemanager#GrantStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
              }
            },
            "REJECTED": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

          }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
```

```
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
          }

    },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
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```
ISO8601-UTC format.</p>"
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>"
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
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```
            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
```

```
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidResourceState",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },

      "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
              "smithy.api#documentation": "<p>Condition of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
          "EQUALS": {
            "target": "smithy.api#Unit",
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            "traits": {
              "smithy.api#enumValue": "EQUALS"
            }
          },
          "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "NOT_EQUALS"
            }
          },
          "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "BEGINS_WITH"
            }
          },
          "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
               "smithy.api#enumValue": "CONTAINS"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
      },
      "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>",
              "smithy.api#required": {}
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#IssuerDetails": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>"
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage of sign and verify, \n          and support the RSASSA-PSS SHA-256 signing
algorithm.</p>"
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

           "smithy.api#documentation": "<p>License name.</p>"
            }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {
```

```
    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
          }
        },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

       }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {

          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
          "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
```

```
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
                }
            },

        "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from.  For more information about which platforms correspond to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
```

```
            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

         "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
```

```
            },
            "FAILED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "FAILED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
         }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
         "type": "enum",
         "members": {
            "VCPU": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "vCPU"
               }
            },
            "INSTANCE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Instance"
               }
            },
            "CORE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Core"
               }
            },
            "SOCKET": {
               "target": "smithy.api#Unit",
                "traits": {
                  "smithy.api#enumValue": "Socket"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseDeletionStatus": {
         "type": "enum",
         "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {

              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
            "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",

          "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
            }
          },
          "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
            }
```

```
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlement usages.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

      }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "LicenseUsageFailure",
          "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
         },
         "output": {

      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n         <p>Resource associations need not consume licenses from a license
configuration. \n         For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
         "type": "structure",
         "members": {
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results
to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
```

\n \n <code>GranteePrincipalARN</code>\n \n \n
\n \n <code>ProductSKU</code>\n \n \n \n
\n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

```
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
              }
            },
            "traits": {
              "smithy.api#input": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
            "type": "structure",
            "members": {
              "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
              },
              "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

             "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#output": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
            "type": "operation",
            "input": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
            },
            "output": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
            },
            "errors": [
              {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
              },
              {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
              },
              {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
              },
              {
```

```
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {

    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#Filters",
            "traits": {
              "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
          "LicenseConversionTasks": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
            }
          },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
 {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n          <li>\n            <p>\n              <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits":
 {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
```

```
        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
```

```
            "traits": {

      "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
          "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

       "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
            }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

```
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {

   "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while
   specifying the\n         recipient as this Amazon Web Services account, your organization, or an organizational unit\n
      (OU) to which this member account belongs.</p>"
         }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
            "smithy.api#required": {}
          }
        },
        "Filters": {
```

```
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n      <li>\n      <p>\n      <code>ParentArn</code>\n      </p>\n      </li>\n
<li>\n      <p>\n      <code>GranteePrincipalArn</code>\n      </p>\n      </li>\n      </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
```

```
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicenses": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
```

```
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {

      "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
              "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

         "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
               "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
          "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "Filters": {
        "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> |  \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
```

```
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Token IDs.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
      "type": "structure",
      "members": {
        "Tokens": {
          "target": "com.amazonaws.licensemanager#TokenList",
          "traits": {
            "smithy.api#documentation": "<p>Received token details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n        <li>\n        <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
          Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n        </li>\n
 <li>\n        <p>\n        <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n        Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n        </li>\n        <li>\n        <p>\n
    <code>resourceAccount</code> - The ID of the account that owns the resource. \n        Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n        </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
          "type": "structure",
          "members": {

 "LicenseConfigurationUsageList": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#String"
   },
   "traits": {
      "smithy.api#length": {
         "min": 0,
         "max": 3
      }
   }
},
"com.amazonaws.licensemanager#Message": {
   "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
   "type": "structure",
   "members": {
      "Name": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The key name.</p>"
         }
      },

"Value": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The value.</p>"
         }
      }
   },
   "traits": {
      "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
   }
},
"com.amazonaws.licensemanager#MetadataList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#Metadata"
   }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
```

```
"<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n          <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n          <p>The following filters and are supported when
the resource type \n          is <code>SSM_MANAGED</code>:</p>\n
          <ul>\n            <li>\n              <p>\n                <code>Application Name</code> - The name of the
application.\n              Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n              Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n
<code>Application Version</code> - The version of the application.\n              Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n                <code>Platform
```

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n

\n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",

"smithy.api#required": {}

}

}

},

"traits": {

"smithy.api#documentation": " Describes product information for a license configuration. "

}

},

"com.amazonaws.licensemanager#ProductInformationFilter": {

"type": "structure",

"members": {

"ProductInformationFilterName": {

"target": "com.amazonaws.licensemanager#String",

"traits": {

"smithy.api#documentation": " Filter name. ",

"smithy.api#required": {}

}

},

"ProductInformationFilterValue": {

"target": "com.amazonaws.licensemanager#StringList",

"traits": {

"smithy.api#documentation": " Filter value. "

}

},

```
        "ProductInformationFilterComparator": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Logical operator.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
      }
    },
    "com.amazonaws.licensemanager#ProductInformationList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
       }
    },
    "com.amazonaws.licensemanager#ProvisionalConfiguration": {
      "type": "structure",
      "members": {
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
      }
    },
    "com.amazonaws.licensemanager#RateLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
```

```
            "aws.protocols#awsQueryError": {
              "code": "RateLimitExceeded",
              "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
          }
        },
        "com.amazonaws.licensemanager#ReceivedMetadata": {
          "type": "structure",
          "members": {
            "ReceivedStatus": {
              "target": "com.amazonaws.licensemanager#ReceivedStatus",
              "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
              }
            },
            "ReceivedStatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
              "traits": {
                "smithy.api#documentation": "<p>Received
 status reason.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReceivedStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
          "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

```
            "NONE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "None"
              }
            },
            "WEEKLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Weekly"
              }
            },
            "MONTHLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Monthly"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {
            "licenseConfigurationArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {

          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n         The only supported value is <code>1</code>.</p>"
              }
            },
            "period": {
```

```
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
          },
          "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
```

```
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }

      }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
         "type": "string",
         "traits": {
            "smithy.api#length": {
               "min": 1,
               "max": 100
            }
         }
      },
      "com.amazonaws.licensemanager#ReportType": {
```

```
      "type": "enum",
      "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
          }

    },
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationUsageReport"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
      }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
      "type": "structure",
      "members": {
        "ResourceId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits":
{
            "smithy.api#documentation": "<p>Type of resource.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "Platform": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Platform of the resource.</p>"
              }
            },
            "PlatformVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
              }
            },
            "ResourceOwningAccountId":
{
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#ResourceInventoryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
          }
        },
        "com.amazonaws.licensemanager#ResourceLimitExceededException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "ResourceLimitExceeded",

               "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        },
        "com.amazonaws.licensemanager#ResourceNotFoundException": {
          "type": "structure",
          "members": {
```

```
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "RDS"
        }
      },
      "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
           "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
        }
      }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

```
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Data specified by the caller.</p>"
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
            }
          }
        },
        "traits": {

          "smithy.api#documentation": "<p>Describes a token.</p>"
        }
      },
      "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#TokenData"
        }
      },
      "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 4096
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
          "REFRESH_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REFRESH_TOKEN"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

```
    "com.amazonaws.licensemanager#UntagResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
             "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

  "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
  configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New description of the license configuration.</p>"
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>New product information.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a
report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest":
{
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to
update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

```
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n        <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n        </li>\n        <li>\n        <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n        </li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>The report context.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits":
 {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
```

```
        }
      },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
            "smithy.api#required": {}
          }
        },
        "AddLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
          }
        },
        "RemoveLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

            }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 50
                }
            }
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

            "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.213 aws-smithy-go 1.18.1

1.213.1 Available under license :

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1.214 aws-aws-sdk-go-v2 1.25.11

1.214.1 Available under license :

```
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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a
// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
```

```
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err !=
nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack);
err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
AWS SDK for Go
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Copyright 2014-2015 Stripe, Inc.
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
```

```
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
```

```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
      "type": "integer"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
      "type": "long"
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The type of name to filter by.</p>"
          }
        },
        "Values": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
          "traits": {
            "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
          }
        },
        "Operator": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
          "traits": {
            "smithy.api#documentation": "<p>An operator for filtering results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
      },
      "output": {
```

```
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
            "traits": {
                "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
            }
        },
        "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
            }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
      "type": "structure",
      "members": {
        "AmiId": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
        },
        "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
        },
        "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

    },
        "AccountID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
```

```
        },
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of the instance.</p>"
          }
        },
        "Region": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
          }
        },
        "UsageOperation": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "ProductCode": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
          "traits": {
            "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
          }
        },
        "LastUpdatedTime": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The time in which the last discovery updated the instance details.</p>"
          }
        },
        "SubscriptionName": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux subscriptions.</p>"
      }
```

```
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
   }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
   "type": "structure",
   "members": {
      "message": {
         "target": "smithy.api#String"
       }
   },
   "traits": {
      "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
      "smithy.api#error": "server"
   }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
   "type": "service",
   "version": "2018-05-10",
   "operations": [
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
      },
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
      },
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
      },
      {
         "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
      }
   ],

"traits": {
      "aws.api#service": {
         "sdkId": "License Manager Linux Subscriptions",
         "arnNamespace": "license-manager-linux-subscriptions",
         "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
      },
      "aws.auth#sigv4": {
         "name": "license-manager-linux-subscriptions"
      },
      "aws.protocols#restJson1": {},
      "smithy.api#cors": {
```

```
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",

 "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
              "x-amzn-requestid",
              "x-amzn-trace-id"
            ]
          },
          "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
          "smithy.api#title": "AWS License Manager Linux Subscriptions",
          "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
              "Region": {
                "builtIn": "AWS::Region",
                "required": false,
                "documentation": "The
 AWS region used to dispatch the request.",
                "type": "String"
              },
              "UseDualStack": {
                "builtIn": "AWS::UseDualStack",
                "required": true,
                "default": false,
                "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                "type": "Boolean"
              },
              "UseFIPS": {
                "builtIn": "AWS::UseFIPS",
                "required": true,
                "default": false,
```

"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

```
 "type": "Boolean"
    },
    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "isSet",
          "argv": [
            {
              "ref": "Endpoint"
            }
          ]
        }
      ],
      "type": "tree",
      "rules": [
        {

         "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
```

```
                "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                      "type": "error"
                    },
                    {
                      "conditions": [],

             "endpoint": {
                          "url": {
                            "ref": "Endpoint"
                          },
                          "properties": {},
                          "headers": {}
                        },
                        "type": "endpoint"
                    }
                  ]
                }
              ]
            },
            {
              "conditions": [],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "isSet",

          "argv": [
                          {
                            "ref": "Region"
                          }
                        ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
```

```
                    {
                      "conditions": [
                        {
                          "fn": "aws.partition",
                          "argv": [
                            {
                              "ref": "Region"
                            }
                          ],

"assign": "PartitionResult"
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref": "UseFIPS"
                                },
                                true
                              ]
                            },

                    {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref": "UseDualStack"
                                },
                                true
                              ]
                            }
                          ],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [
                                {

                               "fn": "booleanEquals",
                                    "argv": [
                                      true,
                                      {
                                        "fn": "getAttr",
```

```
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]

    }
                ]
              },
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },

                     "supportsDualStack"
                        ]
                    }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [],
                "type": "tree",
                "rules": [
                  {

          "conditions": [],
                        "endpoint": {
                          "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                          "properties": {},
                          "headers": {}
                        },
                        "type": "endpoint"
                      }
                ]
              }
            ]
```

```
                },
                    {
                      "conditions": [],
                      "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                      "type": "error"
                    }
                  ]
                },
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {

            "ref": "UseFIPS"
                        },
                        true
                      ]
                    }
                  ],
                  "type": "tree",
                  "rules": [
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            true,

    {
                              "fn": "getAttr",
                              "argv": [
                                {
                                  "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                              ]
                            }
                          ]
                        }
                      ],
                      "type": "tree",

                "rules": [
                    {
                      "conditions": [],
```

```
                "type": "tree",
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                      "properties": {},
                      "headers": {}

                    },
                    "type": "endpoint"
                  }
                ]
              }
            ]
          },
          {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]

    },
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                {
                  "ref": "UseDualStack"
                },
                true
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {

             "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
```

```
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],

                                "endpoint": {
                                        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },

        {
                    "conditions": [],
                    "error": "DualStack is enabled but this partition does not support DualStack",
                    "type": "error"
                }
            ]
        },
        {
            "conditions": [],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url":
```

```
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                }
            ]
        },
        {
            "conditions": [],
            "error": "Invalid Configuration: Missing Region",
            "type": "error"
        }
    ]
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
            "expect": {

"endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false
```

```
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
       "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {

    "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
```

```
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
         "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
```

```
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
         "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": true
```

```
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {

"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
```

```
      "Region": "us-isob-east-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
          }
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
        "expect": {
          "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
          }
        },
        "params": {
          "Region": "us-isob-east-1",

    "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {
          "endpoint": {
```

```
                    "url": "https://example.com"
                  }
                },
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": false,
                  "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

          "expect": {
                  "endpoint": {
                    "url": "https://example.com"
                  }
                },
                "params": {
                  "UseFIPS": false,
                  "UseDualStack": false,
                  "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                "expect": {
                  "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                },
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": true,
                  "UseDualStack": false,

           "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true,
                  "Endpoint": "https://example.com"
```

```
                }
              },
              {
                "documentation": "Missing region",
                "expect": {
                  "error": "Invalid Configuration: Missing Region"
                }

          }
            ],
            "version": "1.0"
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "Enabled",
              "value": "Enabled",
              "documentation": "Enabled LinuxSubscriptionsDiscovery"
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
        "type": "structure",
        "members": {
          "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
             "traits": {
              "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "OrganizationIntegration": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
            "traits": {
              "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
              "smithy.api#required": {}
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type":
 "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
          "smithy.api#http": {

       "code": 200,
            "method": "POST",
            "uri": "/subscription/ListLinuxSubscriptionInstances"
          },
          "smithy.api#idempotent": {},
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "Instances"
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
        "type": "structure",
        "members": {
```

```
            "Filters": {
               "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
               "traits": {
                  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n      <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>AmiID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>AccountID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Status</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Region</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>UsageOperation</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>ProductCode</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceType</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
               }
            },
            "MaxResults": {
               "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"

      }
            },
            "NextToken": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                  "smithy.api#length": {
                     "min": 1,
                     "max": 16384
                  }
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
         }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
         "type": "structure",
         "members": {
            "Instances": {
               "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
```

```
            "traits": {
                "smithy.api#documentation":
"<p>An array that contains instance objects.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
           },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have
linked your\n      organization, the returned results will include data aggregated across your accounts in\n
Organizations.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/ListLinuxSubscriptions"
          },
          "smithy.api#idempotent": {},
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "Subscriptions"
          }
```

```
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n      <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n        <li>\n          <p>\n            <code>Subscription</code>\n          </p>\n        </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n        <li>\n          <p>\n            <code>contains</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>equals</code>\n          </p>\n        </li>\n        <li>\n          <p>\n            <code>Notequal</code>\n          </p>\n        </li>\n      </ul>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>",
              "smithy.api#length": {

                "min": 1,
                "max": 16384
              }
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "EQUAL",
          "value": "Equal",
          "documentation": "Equal operator"
        },
        {
          "name": "NOT_EQUAL",
          "value": "NotEqual",
          "documentation": "Not equal operator"
        },
        {
          "name": "CONTAINS",
          "value": "Contains",
          "documentation": "Contains operator"
        }
      ],
      "smithy.api#length": {
        "min": 1,
        "max": 20
      }
    }
  },

 "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled OrganizationIntegration"
```

```
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled OrganizationIntegration"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
          "smithy.api#enum": [

{
              "name": "InProgress",
              "value": "InProgress",
              "documentation": "InProgress status"
            },
            {
              "name": "Completed",
              "value": "Completed",
              "documentation": "Completed status"
            },
            {
              "name": "Successful",
              "value": "Successful",
              "documentation": "Successful status"
            },
            {
              "name": "Failed",
              "value": "Failed",
              "documentation": "Failed status"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String",
          "traits":
```

```
{
            "smithy.api#length": {
              "min": 1,
              "max": 100
            }
          }
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          },
          "smithy.api#uniqueItems": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
          "target": "smithy.api#String"
        },
        "value": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux
subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },

    "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
```

```
            "code": 200,
            "method": "POST",
            "uri": "/subscription/UpdateServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
              "smithy.api#required": {}
            }
          },
          "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
              "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",

  "smithy.api#required": {}
            }
          },
          "AllowUpdate": {
            "target": "smithy.api#Boolean",
            "traits": {
              "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
            }
          },
```

```
        "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
            "traits": {
                "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
            }
        },
        "Status": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
            "traits": {
                "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
            }
        },
        "StatusMessage": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
            "traits": {
                "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
            }
        },
        "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated data for Linux\n      subscriptions.</p>"
            }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
        "smithy.api#error": "client"
      }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
   - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if
 err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "DisassociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData
```

```
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource
Name (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
```

```
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
if err != nil {
 return
err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
```

```
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity
 *types.DatetimeRange

 // Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName:
 "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
```

```
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return
err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:

```
//
  - ProductSKU
//   - Status
//   - Fingerprint
//   - IssuerName
//   - Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
```

```
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

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```
{
  "smithy": "2.0",
  "shapes": {
```

```
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
"<p>Details about an Active Directory identity provider.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p>\n        <note>\n        <p>Your estimated bill for charges on the number of users and related costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
              }
            },
            "InstanceId": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The ID of the
 EC2 instance, which provides user-based subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>The identity provider of the user.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "Domain": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
          "type": "structure",
          "members": {
            "InstanceUserSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
               "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                "smithy.api#required": {}
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
          "type": "integer"
        },
        "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
          "type": "structure",
          "members": {
            "message": {
              "target": "smithy.api#String"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
            "smithy.api#error": "server"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
          },
```

```
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/identity-provider/DeregisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
      "type": "structure",
      "members": {
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
```

```
                "smithy.api#required": {}
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the results of an identity provider operation.</p>",
                "smithy.api#required": {}
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
```

```
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

 "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
```

```
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
"<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>An object that details the registered identity providers product
related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
              "smithy.api#required":
{}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
```

```
            "traits": {
                "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
 of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
```

```
            "StatusMessage": {
               "target": "smithy.api#String",
               "traits": {
                  "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
               }

         }
      },
      "traits": {
         "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
      }
   },
   "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
      "type": "list",
      "member": {
         "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
      }
   },
   "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
      "type": "structure",
      "members": {
         "Username": {
            "target": "smithy.api#String",
            "traits": {
               "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
               "smithy.api#required": {}
            }
         },
         "InstanceId": {
            "target": "smithy.api#String",
            "traits":
{
               "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
               "smithy.api#required": {}
            }
         },
         "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
               "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
               "smithy.api#required": {}
            }
         },
         "Status": {
            "target": "smithy.api#String",
            "traits": {
               "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "StatusMessage": {
              "target": "smithy.api#String",
               "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
              }
            },
            "Domain": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
              }
            },
            "AssociationDate": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
              }
            },
            "DisassociationDate": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
              }
            }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
```

```
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

     "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
```

```
        "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
      },
      "aws.auth#sigv4": {
        "name": "license-manager-user-subscriptions"
      },
      "aws.protocols#restJson1": {},
      "smithy.api#cors": {
        "additionalAllowedHeaders": [
          "*",
          "content-type",
          "x-amz-content-sha256",
          "x-amz-user-agent",
          "x-amzn-platform-id",
          "x-amzn-trace-id",
          "content-length",
          "x-api-key",
          "authorization",
          "x-amz-date",
          "x-amz-security-token",
          "Access-Control-Allow-Headers",
          "Access-Control-Allow-Methods",
          "Access-Control-Allow-Origin"
        ],
        "additionalExposedHeaders": [
          "x-amzn-errortype",
          "x-amzn-requestid",
          "x-amzn-trace-id"

]
      },
      "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
      "smithy.api#title": "AWS License Manager User Subscriptions",
      "smithy.rules#endpointRuleSet": {
        "version": "1.0",
        "parameters": {
          "Region": {
            "builtIn": "AWS::Region",
            "required": false,
            "documentation": "The AWS region used to dispatch the request.",
            "type": "String"
          },
          "UseDualStack": {
            "builtIn": "AWS::UseDualStack",
            "required": true,
            "default": false,
            "documentation": "When true, use the dual-stack
```

```
endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
            "type": "Boolean"
        },
        "UseFIPS": {
            "builtIn": "AWS::UseFIPS",
            "required": true,
            "default": false,
            "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
            "type": "Boolean"
        },
        "Endpoint": {
            "builtIn": "SDK::Endpoint",
            "required": false,
            "documentation": "Override the endpoint used to send this request",
            "type": "String"
        }

    },
        "rules": [
        {
            "conditions": [
            {
                "fn": "isSet",
                "argv": [
                {
                    "ref": "Endpoint"
                }
                ]
            }
            ],
            "type": "tree",
            "rules": [
            {
                "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                    {
                        "ref": "UseFIPS"
                    },

                    true
                    ]
                }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
```

```
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],

"error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [],
              "endpoint": {
                "url": {
                  "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
              },
              "type": "endpoint"
            }
          ]
        },
        {
          "conditions": [
            {
              "fn": "isSet",
              "argv": [

{
                  "ref": "Region"
                }
              ]
            }
          ],
          "type": "tree",
          "rules": [
            {
              "conditions": [
                {
                  "fn": "aws.partition",
```

```
                "argv": [
                  {
                    "ref": "Region"
                  }
                ],
                "assign": "PartitionResult"
              }
            ],
            "type": "tree",

      "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  },
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"

                      },
                      true
                    ]
                  }
                ],
                "type": "tree",
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",

"argv": [
                                {
                                  "ref": "PartitionResult"
                                },
```

```
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

            "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

        "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                         "type": "error"
                    }
                ]
            },
            {
                "conditions": [
                    {
```

```
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  }
                ],
                "type": "tree",

        "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          true,
                          {
                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },
                              "supportsFIPS"

                           ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                          "properties": {},
                          "headers": {}

            },
                        "type": "endpoint"
                      }
                    ]
                  },
                  {
                    "conditions": [],
```

```
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

                    "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {

                  "conditions": [],
                   "endpoint": {
                      "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
```

```
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "DualStack is enabled but this partition does
not support DualStack",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        }
    ]
},
{
    "conditions":
[],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
]
},
"smithy.rules#endpointTests": {
    "testCases": [
        {
            "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
```

```
        }
      },
      {
        "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
          }
        },

    "params": {
          "Region": "us-east-1",
          "UseFIPS": false,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": false,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region cn-north-1 with
FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
```

```
                "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
              }
            },

        "params": {
              "Region": "cn-north-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region cn-north-1
 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": false,
```

```
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
            }
          },

      "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
```

```
                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                  }
                },

    "params": {
                    "Region": "us-gov-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                  }
                },
                {
                  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
                  "expect": {
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
                  },
                  "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                  }
                },
                {
                  "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
                  "expect":
{
                    "endpoint": {
                      "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                    }
                  },
                  "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                  }
                },
                {
                  "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
                  "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                  },
                  "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": false,
                    "UseDualStack":
true
                  }
                },
                {
```

```
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }

      },
          {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
```

```
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
      "params": {
```

```
                    "Region": "us-east-1",
                     "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                     "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
    }
  }
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
  "type": "operation",
  "input": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
  },
  "output": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
  },
  "errors": [
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
    },
    {
      "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
     },
    {
```

```
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
```

```
    "members": {
      "IdentityProviderSummaries": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
        "traits": {
          "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
          "smithy.api#required": {}
        }
      },
      "NextToken": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
```

```
            "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/instance/ListInstances"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "InstanceSummaries"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
          "type": "structure",
          "members": {
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
               "traits": {
                 "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                 "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
          "type":
 "structure",
          "members": {
            "InstanceSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
              "traits": {
                 "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
              }
            },
```

```
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
```

```
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match
 one or\n      more sets of key-value pairs that you specify.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
```

```
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions
operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target":
 "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
```

```
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for
the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
        "type": "structure",
        "members": {

        "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
```

```
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }

        },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a product for a user.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            },
            "SubscriptionStartDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
```

```
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
```

```
                "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
            }
        },
        "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
                "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary":
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                "smithy.api#required": {}
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 404
    }
},
```

```
    "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
      "type": "string",

  "traits": {
        "smithy.api#length": {
          "min": 5,
          "max": 200
        },
        "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
      "type": "structure",
      "members": {
        "Subnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation":
"<p>The subnets defined for the registered identity provider.</p>",
            "smithy.api#length": {
              "min": 1
            },
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
```

such as the\n subnets to provision VPC endpoints, and the security group ID that
is associated with the VPC\n endpoints. The security group should permit inbound TCP port 1688
communication from resources\n in the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity
provider. \n <note>\n Your estimated bill for charges on the number of users and related costs
will take 48\n hours to appear for billing periods that haven't closed (marked as Pending billing status)
in Amazon Web Services Billing.
For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly
charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"

```
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        }
    },
```

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    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

  },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
         "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/user/StopProductSubscription"
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
```

```
                "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required":
{}
              }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "Domain": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
              }
            }
          }
        },
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              "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
              "traits": {
                "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
                "smithy.api#required": {}
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StringList": {
          "type": "list",
          "member": {
            "target": "smithy.api#String"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
          "type": "string",
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```
      "traits": {
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      }
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      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
      }
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    "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
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      "members": {
        "message": {

         "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
```

```
identity\n      provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/UpdateIdentityProviderSettings"
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            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
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          "members": {
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              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#required": {}
              }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "UpdateSettings": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
              "traits": {
                "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
          <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                "smithy.api#required": {}
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
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          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                "smithy.api#required": {}
              }
            }
          }
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```
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    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
      "type": "structure",
      "members": {
        "AddSubnets": {

         "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
            "smithy.api#required": {}
          }
        },
        "RemoveSubnets": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
          "traits": {
            "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
            "smithy.api#required": {}
          }
        },
        "SecurityGroupId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
          "traits": {
            "smithy.api#documentation": "<p>A security group ID
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for
activation servers.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n      the subnets to provision VPC endpoints.</p>"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A parameter is not valid.</p>",
        "smithy.api#error": "client"
      }
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  }
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        "id": "HttpResponseCodeSemantics",
        "namespace": "*"
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        "id": "PaginatedTrait",
        "namespace": "*"
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        "id": "HttpHeaderTrait",
        "namespace": "*"
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      {
        "id": "HttpUriConflict",
        "namespace": "*"
      },
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
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  "shapes": {
    "com.amazonaws.licensemanager#AWSLicenseManager": {
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      "version": "2018-08-01",
      "operations": [
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          "target": "com.amazonaws.licensemanager#AcceptGrant"
        },

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        {
          "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
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        {
          "target": "com.amazonaws.licensemanager#CheckoutLicense"
        },
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      "target": "com.amazonaws.licensemanager#CreateGrantVersion"
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      "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
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      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
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      "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
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      "target": "com.amazonaws.licensemanager#CreateToken"
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      "target": "com.amazonaws.licensemanager#DeleteGrant"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
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      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
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      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
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},
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   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
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   "target": "com.amazonaws.licensemanager#ListLicenses"
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},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
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        "target": "com.amazonaws.licensemanager#ListReceivedGrants"
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      {
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      {
        "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
      },
      {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
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        "target": "com.amazonaws.licensemanager#ListResourceInventory"
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      {
        "target": "com.amazonaws.licensemanager#ListTagsForResource"
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        "target": "com.amazonaws.licensemanager#ListTokens"
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        "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
      },
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        "target": "com.amazonaws.licensemanager#RejectGrant"
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      {
        "target": "com.amazonaws.licensemanager#TagResource"
      },
      {
        "target": "com.amazonaws.licensemanager#UntagResource"
      },
      {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
      },
      {
        "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
      },
      {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
      },
      {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
      }
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    "traits": {
      "aws.api#service": {
```

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        "sdkId": "License Manager",
        "arnNamespace": "license-manager",
        "cloudFormationName": "LicenseManager",
        "cloudTrailEventSource": "licensemanager.amazonaws.com",
        "endpointPrefix": "license-manager"
      },
      "aws.auth#sigv4": {
        "name": "license-manager"
      },
      "aws.protocols#awsJson1_1": {},
      "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
      "smithy.api#title": "AWS License Manager",
      "smithy.api#xmlNamespace": {
        "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
      },
      "smithy.rules#endpointRuleSet": {
        "version": "1.0",
        "parameters": {
          "Region": {
            "builtIn": "AWS::Region",
            "required": false,
            "documentation": "The AWS region used to dispatch the request.",
            "type": "String"
          },
          "UseDualStack": {
            "builtIn": "AWS::UseDualStack",
            "required": true,
            "default": false,
            "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
            "type": "Boolean"
          },
          "UseFIPS": {
            "builtIn": "AWS::UseFIPS",
            "required": true,
            "default": false,
            "documentation": "When true, send
 this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
            "type": "Boolean"
          },
          "Endpoint": {
            "builtIn": "SDK::Endpoint",
            "required": false,
            "documentation": "Override the endpoint used to send this request",
            "type": "String"
          }
```

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        "conditions": [
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            "argv": [
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                "ref": "Endpoint"
              }
            ]

          }
          ],
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          "rules": [
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              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
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                      "ref": "UseFIPS"
                    },
                    true
                  ]
                }
              ],
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
              "type": "error"
            },
            {

"conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
              "type": "error"
            },
            {
```

```
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
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                },
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
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                "conditions": [
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                    "fn": "aws.partition",
                    "argv": [
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                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",
                "rules": [
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                    "conditions": [
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                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref":
"UseFIPS"
                          },
```

```
                true
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              "fn": "booleanEquals",
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                {
                  "ref": "UseDualStack"
                },
                true
              ]
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          "rules": [
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                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsFIPS"
                      ]

                }
                  ]
                },
                {
                  "fn": "booleanEquals",
                  "argv": [
                    true,
                    {
                      "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },

"supportsDualStack"
                      ]
                    }
                  ]
```

```
                }
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fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}

                },
                    "type": "endpoint"
                }
            ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
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                "fn": "booleanEquals",

            "argv": [
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                        "argv": [
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                {
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                                   "supportsFIPS"
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                          ]
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                          "conditions": [],
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                             "headers": {}
                          },
                          "type": "endpoint"
                       }
                    ]
                 },
                 {
                    "conditions": [],
                    "error": "FIPS is enabled but this
partition does not support FIPS",
                    "type": "error"
                 }
              ]
           },
           {
              "conditions": [
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                    "argv": [
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                       },
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                    ]
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              ],
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                            "fn": "getAttr",
                            "argv": [
                              {
                                "ref": "PartitionResult"
                              },

    "supportsDualStack"
                          ]
                        }
                      ]
                    }
                  ],
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                  "rules": [
                    {
                      "conditions": [],
                      "endpoint": {
                        "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}

                },
                      "type": "endpoint"
                    }
                  ]
                },
                {
                  "conditions": [],
                  "error": "DualStack is enabled but this partition does not support DualStack",
                  "type": "error"
                }
              ]
            },
            {
              "conditions": [],
              "endpoint": {
                "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                 "properties": {},
                "headers": {}
```

```
                        },
                        "type": "endpoint"
                      }
                    ]
                  }
                ]
              },
              {
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                "error": "Invalid Configuration: Missing Region",
                "type": "error"
              }
            ]
          },
          "smithy.rules#endpointTests": {
            "testCases": [
              {
                "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint":
{
                    "url": "https://license-manager.af-south-1.amazonaws.com"
                  }
                },
                "params": {
                  "Region": "af-south-1",
                  "UseFIPS": false,
                  "UseDualStack": false
                }
              },
              {
                "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.ap-east-1.amazonaws.com"
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                },
                "params": {
                  "Region": "ap-east-1",
                  "UseFIPS": false,
                  "UseDualStack": false
                 }
              },
              {
                "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.ap-northeast-1.amazonaws.com"
```

```
            }
          },
          "params": {
            "Region": "ap-northeast-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-northeast-2.amazonaws.com"
             }
          },
          "params": {
            "Region": "ap-northeast-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
          "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-northeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-northeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }

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        {
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          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
```

```
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          "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
          "expect": {
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          "params": {
            "Region": "ap-southeast-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
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        {
          "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {

"documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
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          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
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          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
          },
```

```
        "params": {
            "Region": "ca-central-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-central-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-north-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "eu-north-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.eu-south-1.amazonaws.com"
            }
        },
        "params": {
            "Region":
"eu-south-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
```

```
        {
          "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
          "expect": {

          "endpoint": {
              "url": "https://license-manager.eu-west-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

 "UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
```

```
      "params": {
        "Region": "me-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
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    {
      "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.sa-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "sa-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-east-2.amazonaws.com"
        }

      },
      "params": {
        "Region": "us-east-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-east-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-2",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region
us-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-west-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-west-1.amazonaws.com"
        }
      },
      "params": {
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            "Region": "us-west-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
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              "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager.us-west-2.amazonaws.com"
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                "Region": "us-west-2",
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                "UseDualStack": false
              }
            },
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              "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
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              },
              "params": {
                "Region": "us-west-2",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-fips.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,

                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
```

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            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
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          {
            "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
              }
            },
            "params": {
              "Region": "cn-northwest-1",
              "UseFIPS": false,
              "UseDualStack": false

    }
          },
          {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
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            "UseFIPS": true,
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        },
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          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
             }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },

    {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
```

```
                "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
              }
            },
            "params": {
              "Region": "us-gov-west-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-fips.us-gov-east-1.api.aws"
              }
            },

    "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": true
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      }
    },
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      "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-gov-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
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            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled
but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
            }
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },

      {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
```

```
                },

            "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                    "error": "DualStack is enabled but this partition does not support DualStack"
                },
                "params": {
                    "Region": "us-isob-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

    "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
            },
            {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://example.com"
                    }
                },
                "params": {
                    "UseFIPS": false,

        "UseDualStack": false,
                    "Endpoint": "https://example.com"
                }
```

```
                },
                {
                  "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                  "expect": {
                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": true,
                    "UseDualStack": false,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                  "expect": {
                    "error":
"Invalid Configuration: Dualstack and custom endpoint are not supported"
                  },
                  "params": {
                    "Region": "us-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true,
                    "Endpoint": "https://example.com"
                  }
                },
                {
                  "documentation": "Missing region",
                  "expect": {
                    "error": "Invalid Configuration: Missing Region"
                  }
                }
              ],
              "version": "1.0"
            }
          }
        },
        "com.amazonaws.licensemanager#AcceptGrant": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
          "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
          },
          "errors": [
            {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"

}
    ],
    "traits": {
      "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantRequest": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#AcceptGrantResponse": {
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Grant
```

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ARN.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {

 "code": "ServiceAccessDenied",
                "httpResponseCode": 401
            },
            "smithy.api#documentation": "<p>Access to resource denied.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 401
        }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
        "type": "enum",
        "members": {
            "DISTRIBUTED_GRANTS_ONLY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
                }
            },
            "ALL_GRANTS_PERMITTED_BY_ISSUER": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperation": {

    "type": "enum",
        "members": {
          "CREATE_GRANT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateGrant"
            }
          },
          "CHECKOUT_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutLicense"
            }
          },
          "CHECKOUT_BORROW_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckoutBorrowLicense"
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
```

```
            "CREATE_TOKEN": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "CreateToken"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max":
7
            }
        }
    },
    "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 2048
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-
z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
```

```
{
            "code": "AuthorizationFailure",
            "httpResponseCode": 403
        },
        "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 403
      }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
      "type": "structure",
      "members": {
        "LastRunTime": {
          "target": "com.amazonaws.licensemanager#DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes automated discovery.</p>"
      }
    },

  "com.amazonaws.licensemanager#Boolean": {
      "type": "boolean",
      "traits": {
        "smithy.api#default": false
      }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
      "type": "structure",
      "members": {
        "AllowEarlyCheckIn": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
          "traits": {
            "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxTimeToLiveInMinutes": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
            "smithy.api#required": {}
          }
        }
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```
},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"

     },
            {
                "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
        "type": "structure",
        "members": {
            "LicenseConsumptionToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License consumption token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Beneficiary": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License beneficiary.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
              "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
          "type": "structure",
          "members":
{
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                "smithy.api#required": {}
              }
```

```
            },
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                "smithy.api#required": {}
              }
            },
            "DigitalSignatureMethod": {
              "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
              "traits": {
                "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                "smithy.api#required": {}
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "CheckoutMetadata": {
              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Information about constraints.</p>"
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
```

```
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },
            "EntitlementsAllowed":
{
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
              }
            },
            "CheckoutMetadata": {
              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Information about constraints.</p>"
              }
            }
          },
```

```
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutLicense": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Checks out the specified license.</p>\n      <note>\n      <p>If the
account that created the license is the same that is performing the check out, you must\n      specify the account
```

```
as the beneficiary.</p>\n        </note>"
        }
      },
      "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product
 SKU.</p>",
              "smithy.api#required": {}
            }
          },
          "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
              "smithy.api#documentation": "<p>Checkout type.</p>",
              "smithy.api#required": {}
            }
          },
          "KeyFingerprint": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>",

      "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License beneficiary.</p>"
```

```
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        }
    },
    "traits": {

   "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#CheckoutLicenseResponse": {
    "type": "structure",
    "members": {
        "CheckoutType": {
            "target": "com.amazonaws.licensemanager#CheckoutType",
            "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
            }
        },
        "LicenseConsumptionToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
            }
        },
        "EntitlementsAllowed": {
            "target": "com.amazonaws.licensemanager#EntitlementDataList",
            "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
            }
        },
         "SignedToken": {
            "target": "com.amazonaws.licensemanager#SignedToken",
            "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
            }
        },
        "NodeId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
            }
        },
        "IssuedAt": {
```

```
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
            }
          },
          "Expiration": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CheckoutType": {
        "type": "enum",
        "members": {
          "PROVISIONAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
           }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
```

```
    },
    "com.amazonaws.licensemanager#ClientToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 2048
        },
        "smithy.api#pattern": "^\\S+$"
      }
    },
    "com.amazonaws.licensemanager#ConflictException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "ConflictException",
          "httpResponseCode":
409
        },
        "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 409
      }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
      "type": "structure",
      "members": {
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits": {
            "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
          }
        },
        "ConsumedLicenses": {
          "target": "com.amazonaws.licensemanager#BoxLong",
          "traits": {
            "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
          }
        }
      },
```

```
"traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
    },
    "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
            "RenewType": {
                "target": "com.amazonaws.licensemanager#RenewType",
                "traits": {
                    "smithy.api#documentation": "<p>Renewal frequency.</p>"
                }
            },
            "ProvisionalConfiguration": {
                "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
                 }
            },
            "BorrowConfiguration": {
                "target": "com.amazonaws.licensemanager#BorrowConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
              "target":
 "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
license\n          entitlements with a specific Amazon Web Services account, an organization, or an\n
organizational unit (OU). For more
 information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant name.</p>",
                "smithy.api#required": {}

    }
            },
            "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name\n (ARN):</p>\n <ul>\n <li>\n <p>An Amazon Web Services account, which includes only the account specified.</p>\n </li>\n </ul>\n <ul>\n <li>\n <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n </li>\n </ul>\n <ul>\n\n <li>\n <p>An organization, which will include all accounts across your organization.</p>\n </li>\n </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
              "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
```

```
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CreateGrantVersion":
{
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
```

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
        "type": "structure",
        "members": {
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

  "smithy.api#required": {}
                }
            },
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>"
                }
            },
            "AllowedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                 "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>"
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
```

```
            }
          },
          "SourceVersion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the grant.</p>"
            }
          },
          "Options": {
            "target": "com.amazonaws.licensemanager#Options",
            "traits": {
              "smithy.api#documentation": "<p>The options specified for the grant.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
```

```
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#RedirectException"
       },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
        "target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Creates a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a license configuration.</p>\n      <p>A license configuration is an abstraction of a customer license agreement that can be\n      consumed and enforced by License Manager. Components include specifications for the license\n      type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n      Dedicated Instance, Dedicated Host, or
 all of these), license affinity  to host (how long a \n      license must be associated with a host), and the number of licenses purchased and used.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "Description": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Description of the license configuration.</p>"
          }
        },
        "LicenseCountingType": {
          "target": "com.amazonaws.licensemanager#LicenseCountingType",
          "traits": {
            "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseCount": {
          "target": "com.amazonaws.licensemanager#BoxLong",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n        <li>\n            <p>\n                <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
        <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n        </li>\n        <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
        <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n        </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n        </li>\n        <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n        </li>\n    </ul>\n    <p>The unit for
<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n        values for
<code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n
<code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n
<code>True</code> and <code>False</code>.</p>"
            }
        },

  "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
                "smithy.api#documentation": "<p>Tags to add to the license configuration.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
```

```
            }
          },
          "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
              "smithy.api#documentation": "<p>Product information.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse":
{
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
         }
      },
      "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
         "type": "structure",
         "members": {
            "ResourceArn": {

               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                  "smithy.api#required": {}
               }
            },
            "SourceLicenseContext": {
               "target": "com.amazonaws.licensemanager#LicenseConversionContext",
               "traits": {
                  "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                  "smithy.api#required": {}
               }
            },
            "DestinationLicenseContext":
{
               "target": "com.amazonaws.licensemanager#LicenseConversionContext",
               "traits": {
                  "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
```

```
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
    "type": "structure",
    "members": {
      "LicenseConversionTaskId": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

    "traits": {
          "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
       },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {
```

```
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n </ul>",
              "smithy.api#required": {}

      }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>Defines the type of license configuration the report generator tracks.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be generated daily, monthly, or weekly.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Unique,
case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
          "LicenseManagerReportGeneratorArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>",
              "smithy.api#required": {}
            }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product
name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region for the license.</p>",
            "smithy.api#required": {}

  }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>License beneficiary.</p>",
              "smithy.api#required": {}
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for workloads with offline\n          usage.</p>",
              "smithy.api#required": {}
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license.</p>"
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseResponse": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
              "smithy.api#documentation": "<p>License status.</p>"
            }
          },
```

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
          "traits":
{
            "smithy.api#documentation": "<p>License issuer.</p>",
            "smithy.api#required": {}
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
```

```
            },
            "LicenseMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about the license.</p>"
               }
            },
            "Entitlements": {
               "target": "com.amazonaws.licensemanager#EntitlementList",
               "traits": {
                  "smithy.api#documentation": "<p>License entitlements.</p>",
                  "smithy.api#required": {}
               }
            },
            "ConsumptionConfiguration": {
               "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n         running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n         usage.</p>",
                  "smithy.api#required": {}
               }
            },

   "Status": {
               "target": "com.amazonaws.licensemanager#LicenseStatus",
               "traits": {
                  "smithy.api#documentation": "<p>License status.</p>",
                  "smithy.api#required": {}
               }
            },
            "ClientToken": {
               "target": "com.amazonaws.licensemanager#ClientToken",
               "traits": {
                  "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                  "smithy.api#required": {}
               }
            },
            "SourceVersion": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the license.</p>"
               }
            }
         },
         "traits": {
```

```
"smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>License ARN.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>New version of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output":
{}
      }
    },
    "com.amazonaws.licensemanager#CreateToken": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateTokenResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
```

```
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },

      {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n         <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
         }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits":
{
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                  "smithy.api#required": {}
               }
            },
            "RoleArns": {
               "target": "com.amazonaws.licensemanager#ArnList",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
               }
            },
            "ExpirationInDays": {
               "target": "com.amazonaws.licensemanager#Integer",
               "traits": {
                  "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
               }
```

```
            },
            "TokenProperties": {
                "target": "com.amazonaws.licensemanager#MaxSize3StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped\n          to the amr claim of the JWT token.</p>"
                }
            },
            "ClientToken": {
                "target": "com.amazonaws.licensemanager#ClientToken",
                "traits": {
                    "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",

                "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
            "TokenType": {
                "target": "com.amazonaws.licensemanager#TokenType",
                "traits": {
                    "smithy.api#documentation": "<p>Token type.</p>"
                }
            },
            "Token": {
                "target": "com.amazonaws.licensemanager#TokenString",
                "traits": {
                    "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DateTime": {
```

```
    "type": "timestamp"
},
"com.amazonaws.licensemanager#DatetimeRange": {
    "type": "structure",
    "members": {
        "Begin": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>Start of the time range.</p>",
                "smithy.api#required": {}
            }
        },
        "End": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
                "smithy.api#documentation": "<p>End of the time range.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
    }
},
"com.amazonaws.licensemanager#DeleteGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
```

```
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "StatusReason": {
            "target": "com.amazonaws.licensemanager#StatusReasonMessage",
            "traits": {
              "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Current version of the
grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
```

```
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#ConflictException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

    "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n         <p>You cannot
delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

```
            "smithy.api#documentation": "<p>ID of the license configuration.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
       },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n        <p>This action deletes the report generator, which stops it from generating future reports.\n        The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

 "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                    "smithy.api#required": {}
                }
            },
            "SourceVersion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Current version of the license.</p>",
                    "smithy.api#required":
```

```
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
        "type": "structure",
        "members": {
            "Status": {
                "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
                "traits": {
                    "smithy.api#documentation": "<p>License status.</p>"
                }
            },
            "DeletionDate": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteToken": {
        "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },

      {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
         }
      },
      "com.amazonaws.licensemanager#DeleteTokenRequest": {
         "type": "structure",
         "members": {
            "TokenId": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token ID.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
         "type": "structure",
         "members": {},
         "traits": {
            "smithy.api#output": {}

       }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
         "type": "enum",
         "members": {
            "JWT_PS384": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "JWT_PS384"
               }
```

```
            }
          }
        },
        "com.amazonaws.licensemanager#Entitlement": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement name.</p>",
                "smithy.api#required": {}
              }
            },
            "Value": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
              }
            },
            "MaxCount": {
              "target": "com.amazonaws.licensemanager#Long",
              "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
              }
            },
            "Overage": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
              }
            },
            "Unit": {
              "target": "com.amazonaws.licensemanager#EntitlementUnit",
              "traits": {
                "smithy.api#documentation": "<p>Entitlement unit.</p>",
                "smithy.api#required": {}
              }
            },
            "AllowCheckIn": {
              "target":
"com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
              }
            }
          },
          "traits": {
```

```
            "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data name.</p>",
                    "smithy.api#required": {}
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement
data value.</p>"
                }
            },
            "Unit": {
                "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
                "traits": {
                    "smithy.api#documentation": "<p>Entitlement data unit.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementData"
        }
    },
    "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
            "COUNT": {
                "target": "smithy.api#Unit",
                "traits": {

"smithy.api#enumValue": "Count"
                }
            },
```

```
"NONE": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "None"
   }
},
"SECONDS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Seconds"
   }
},
"MICROSECONDS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Microseconds"
   }
},
"MILLISECONDS": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Milliseconds"
   }
},
"BYTES": {
   "target": "smithy.api#Unit",
    "traits": {
      "smithy.api#enumValue": "Bytes"
   }
},
"KILOBYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Kilobytes"
   }
},
"MEGABYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Megabytes"
   }
},
"GIGABYTES": {
   "target": "smithy.api#Unit",
   "traits": {
      "smithy.api#enumValue": "Gigabytes"
   }
},
```

```
        "TERABYTES": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabytes"
          }
        },
        "BITS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits"
          }
        },
        "KILOBITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits"
          }
        },
        "MEGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits"
          }
        },
        "GIGABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits"
          }
        },
        "TERABITS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits"

    }
        },
        "PERCENT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Percent"
          }
        },
        "BYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bytes/Second"
```

```
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
        "BITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bits/Second"
            }
        },
        "KILOBITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
            }
        },
        "MEGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
            }
        },
        "GIGABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
```

```
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
          }
        },
        "com.amazonaws.licensemanager#EntitlementUnit": {
          "type": "enum",
          "members": {
            "COUNT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count"
              }
            },
            "NONE": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
                "smithy.api#enumValue": "None"
            }
        },
        "SECONDS":
{
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Seconds"
            }
        },
        "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Microseconds"
            }
        },
        "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Milliseconds"
            }
        },
        "BYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes"
            }
        },
        "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes"
             }
        },
        "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes"
            }
        },
        "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabytes"
            }
        },
        "TERABYTES": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabytes"
            }
          },
          "BITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bits"
            }
          },
          "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {

             "smithy.api#enumValue": "Kilobits"
            }
          },
          "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
```

```
        },
        "KILOBYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobytes/Second"
          }
        },
        "MEGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabytes/Second"
          }
        },
        "GIGABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabytes/Second"
          }
        },
        "TERABYTES_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {

"smithy.api#enumValue": "Terabytes/Second"
          }
        },
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
```

```
            }
        },

  "TERABITS_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits/Second"
            }
        },
        "COUNT_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Count/Second"
            }
        }
    }
},
"com.amazonaws.licensemanager#EntitlementUsage": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage name.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumedValue": {
            "target": "com.amazonaws.licensemanager#String",

       "traits": {
                "smithy.api#documentation": "<p>Resource usage consumed.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxCount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
            }
        },
        "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
                "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
                "smithy.api#required": {}
            }
        }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#EntitlementUsage"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
        }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
```

```
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>",
            "smithy.api#required": {}

    }
        },
        "DryRun": {
          "target": "com.amazonaws.licensemanager#Boolean",
          "traits": {
            "smithy.api#default": false,
            "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
      "type": "structure",
      "members": {
        "LicenseConsumptionToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License consumption token.</p>"
          }
        },

        "Expiration": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#FailedDependencyException": {
      "type": "structure",
      "members": {
        "Message": {
```

```
            "target": "com.amazonaws.licensemanager#Message"
          },
          "ErrorCode": {
            "target": "com.amazonaws.licensemanager#String"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "FailedDependency",
            "httpResponseCode": 424
          },
          "smithy.api#documentation":
 "<p>A dependency required to run the API is missing.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 424
        }
      },
      "com.amazonaws.licensemanager#Filter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#FilterName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
            }
          },
          "Values": {
            "target": "com.amazonaws.licensemanager#FilterValues",
            "traits": {
              "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only
specify one value for the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n        describe operation. Filters can be used
to match a set of resources by specific criteria,\n        such as tags, attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
```

```
        "aws.protocols#awsQueryError": {
          "code": "FilterLimitExceeded",
          "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#FilterList": {
      "type": "list",
       "member": {
        "target": "com.amazonaws.licensemanager#Filter"
      }
    },
    "com.amazonaws.licensemanager#FilterName": {
      "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
      "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#FilterValue",
        "traits": {
          "smithy.api#xmlName": "item"
        }
      }
    },
    "com.amazonaws.licensemanager#Filters": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#Filter",
        "traits": {
          "smithy.api#xmlName": "item"
        }
      }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
      "type": "operation",
      "input": {
         "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
      },
      "errors": [
```

```
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n         are valid for one hour.</p>"
         }
      },
      "com.amazonaws.licensemanager#GetAccessTokenRequest": {
         "type": "structure",
         "members": {
            "Token": {
               "target": "com.amazonaws.licensemanager#TokenString",
               "traits": {
                  "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
                  "smithy.api#required": {}
               }
            },
            "TokenProperties": {
               "target": "com.amazonaws.licensemanager#MaxSize3StringList",
               "traits": {
                  "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT
token.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#GetAccessTokenResponse":
 {
         "type": "structure",
         "members": {
```

```
        "AccessToken": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Temporary access token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetGrant": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetGrantRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetGrantResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"

      },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
      }
    },
    "com.amazonaws.licensemanager#GetGrantRequest": {
```

```
    "type": "structure",
    "members": {
      "GrantArn": {
        "target": "com.amazonaws.licensemanager#Arn",
         "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
          "smithy.api#required": {}
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Grant version.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
      "Grant": {
        "target": "com.amazonaws.licensemanager#Grant",
        "traits": {
          "smithy.api#documentation": "<p>Grant details.</p>"
        }
      }
    },
    "traits": {

  "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
```

```
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

        },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
            }
          },
          "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
          },
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the license configuration.</p>"
             }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
          },
          "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
        }
    },
    "LicenseRules": {
        "target": "com.amazonaws.licensemanager#StringList",
        "traits": {
            "smithy.api#documentation": "<p>License rules.</p>"
        }
    },
    "LicenseCount": {
        "target": "com.amazonaws.licensemanager#BoxLong",

      "traits": {
            "smithy.api#documentation": "<p>Number of available licenses.</p>"
        }
    },
    "LicenseCountHardLimit": {
        "target": "com.amazonaws.licensemanager#BoxBoolean",
        "traits": {
            "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
        }
    },
    "ConsumedLicenses": {
        "target": "com.amazonaws.licensemanager#BoxLong",
        "traits": {
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
        }
    },
    "Status": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
        }

},
    "OwnerAccountId": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
        }
    },
    "ConsumedLicenseSummaryList": {
        "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
        "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
        }
    },
```

```
            "ManagedResourceSummaryList": {
              "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
              }
            },
            "ProductInformationList": {
              "target": "com.amazonaws.licensemanager#ProductInformationList",
              "traits": {
                "smithy.api#documentation": "<p>Product information.</p>"
              }
            },
            "AutomatedDiscoveryInformation": {
              "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
              "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
              }
            },
            "DisassociateWhenNotFound": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConversionTask": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {

  "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
     },
    "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
                }
            },
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license
conversion task is associated with.</p>"
```

```
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information
about the license type converted from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
            }
          },

  "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
            }
          }
        },
```

```
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

         },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
              "smithy.api#required":
{}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
          "ReportGenerator": {
            "target": "com.amazonaws.licensemanager#ReportGenerator",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {

 "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
```

```
  },
  "com.amazonaws.licensemanager#GetLicenseResponse": {
    "type": "structure",
    "members": {
      "License": {
        "target": "com.amazonaws.licensemanager#License",
        "traits": {
          "smithy.api#documentation": "<p>License details.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },

"com.amazonaws.licensemanager#GetLicenseUsage": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      },
      {

"target": "com.amazonaws.licensemanager#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
    }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
      "type": "structure",
      "members": {
        "LicenseUsage": {
          "target":
"com.amazonaws.licensemanager#LicenseUsage",
          "traits": {
            "smithy.api#documentation": "<p>License usage details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#GetServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"

 }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
                }
```

```
        },
            "LicenseManagerResourceShareArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Grant": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantName": {

 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
```

```
"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                 }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant version.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantedOperations": {
                "target": "com.amazonaws.licensemanager#AllowedOperationList",
                "traits": {
                    "smithy.api#documentation": "<p>Granted operations.</p>",
                    "smithy.api#required": {}
                }
            },
            "Options": {
                "target": "com.amazonaws.licensemanager#Options",
                "traits": {
                    "smithy.api#documentation": "<p>The options specified for the grant.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation":
```

```
"<p>Describes a grant.</p>"
        }
      },
      "com.amazonaws.licensemanager#GrantList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Grant"
        }
      },
      "com.amazonaws.licensemanager#GrantStatus": {
        "type": "enum",
        "members": {
          "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
          },
          "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

          }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
```

```
            },
            "PENDING_DELETE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "PENDING_DELETE"
               }
            },
            "DISABLED": {
               "target": "smithy.api#Unit",
               "traits":
{
                  "smithy.api#enumValue": "DISABLED"
               }
            },
            "WORKFLOW_COMPLETED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "WORKFLOW_COMPLETED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
         "type": "structure",
         "members": {
            "LicenseArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
               }
            },
            "LicenseName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License name.</p>"
               }

   },
            "ProductName": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product name.</p>"
               }
            },
            "ProductSKU": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Product SKU.</p>"
```

```
        }
      },
      "Issuer": {
        "target": "com.amazonaws.licensemanager#IssuerDetails",
        "traits": {
          "smithy.api#documentation": "<p>Granted license issuer.</p>"
        }
      },
      "HomeRegion": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

       }
      },
      "Status": {
        "target": "com.amazonaws.licensemanager#LicenseStatus",
        "traits": {
          "smithy.api#documentation": "<p>Granted license status.</p>"
        }
      },
      "Validity": {
        "target": "com.amazonaws.licensemanager#DatetimeRange",
        "traits": {
          "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
ISO8601-UTC format.</p>"
        }
      },
      "Beneficiary": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
        }
      },
      "Entitlements": {
        "target": "com.amazonaws.licensemanager#EntitlementList",
         "traits": {
          "smithy.api#documentation": "<p>License entitlements.</p>"
        }
      },
      "ConsumptionConfiguration": {
        "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
        "traits": {
          "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
        }
      },
      "LicenseMetadata": {
        "target": "com.amazonaws.licensemanager#MetadataList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
      },
      "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
      },
      "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
      },
      "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
```

```
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InvalidParameterValueProvided",
          "httpResponseCode": 400
        },
        "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InvalidResourceState",
          "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n        <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },

    "com.amazonaws.licensemanager#InventoryFilter": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the filter.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "Condition": {
          "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
          "traits": {
            "smithy.api#documentation": "<p>Condition of the filter.</p>",
            "smithy.api#required": {}
          }
        },
        "Value": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Value of the filter.</p>"
          }
        }

},
      "traits": {
        "smithy.api#documentation": "<p>An inventory filter.</p>"
      }
    },
    "com.amazonaws.licensemanager#InventoryFilterCondition": {
      "type": "enum",
      "members": {
        "EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EQUALS"
          }
        },
        "NOT_EQUALS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "NOT_EQUALS"
          }
        },
        "BEGINS_WITH": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "BEGINS_WITH"
          }
        },
        "CONTAINS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CONTAINS"
          }
        }
      }
```

```
    },
    "com.amazonaws.licensemanager#InventoryFilterList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#InventoryFilter"
      }
    },
    "com.amazonaws.licensemanager#Issuer": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Issuer name.</p>",
            "smithy.api#required": {}
          }
        },
        "SignKey": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage
 of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
      }
    },
    "com.amazonaws.licensemanager#IssuerDetails": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Issuer name.</p>"
          }
        },
        "SignKey": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n        and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
          }
        },
        "KeyFingerprint": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#License": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {

           "smithy.api#documentation": "<p>License name.</p>"
            }
          },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product name.</p>"
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>"
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#IssuerDetails",
            "traits": {
              "smithy.api#documentation": "<p>License issuer.</p>"
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {

   "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>"
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>License metadata.</p>"
          }
        },
        "CreateTime": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>License
 creation time.</p>"
          }
        },
```

```
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>License version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
    }
},
"com.amazonaws.licensemanager#LicenseConfiguration": {
    "type": "structure",
    "members": {
        "LicenseConfigurationId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
            }
        },
        "LicenseConfigurationArn": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
```

```
            }
          },
          "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
          },
          "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
          },
          "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
              "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the license configuration.</p>"
            }
          },
          "OwnerAccountId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

         }
          },
          "ConsumedLicenseSummaryList": {
            "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
            }
          },
          "ManagedResourceSummaryList": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
            }
        },
        "ProductInformationList": {
            "target": "com.amazonaws.licensemanager#ProductInformationList",
            "traits": {
                "smithy.api#documentation": "<p>Product information.</p>"
            }
        },
        "AutomatedDiscoveryInformation": {

            "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
            "traits": {
                "smithy.api#documentation": "<p>Automated discovery information.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n        must be associated with a host), and the number of licenses purchased and used.</p>"
      }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
      "type": "structure",
      "members": {
        "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
        },
        "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>"
            }
```

```
            },
            "AssociationTime": {
               "target": "com.amazonaws.licensemanager#DateTime",
               "traits": {

      "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
               }
            },
            "AmiAssociationScope": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
         "type": "enum",
         "members":
 {
            "AVAILABLE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "AVAILABLE"
               }
            },
            "DISABLED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "DISABLED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
         "type": "structure",
         "members": {
            "ResourceArn": {
```

```
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Time when the license configuration was initially associated with
the resource.</p>"
            }
          },

    "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license
configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
          "UsageOperation": {
            "target": "com.amazonaws.licensemanager#UsageOperation",
            "traits": {
              "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you
are converting your resource from.  For more information about which platforms correspond to which usage
operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-
fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n        conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
```

```
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
```

```
      "type": "string",
      "traits": {

     "smithy.api#length": {
          "min": 0,
          "max": 50
        },
        "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
      "type": "enum",
      "members": {
        "IN_PROGRESS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "IN_PROGRESS"
          }
        },
        "SUCCEEDED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "SUCCEEDED"
          }
        },
        "FAILED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "FAILED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseConversionTasks":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#LicenseConversionTask"
      }
    },
    "com.amazonaws.licensemanager#LicenseCountingType": {
      "type": "enum",
      "members": {
        "VCPU": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "vCPU"
          }
```

```
        },
        "INSTANCE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Instance"
          }
        },
        "CORE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Core"
          }
        },
        "SOCKET": {
          "target": "smithy.api#Unit",
           "traits": {
            "smithy.api#enumValue": "Socket"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseDeletionStatus": {
      "type": "enum",
      "members": {
        "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#License"
      }
    },
    "com.amazonaws.licensemanager#LicenseOperationFailure": {

      "type": "structure",
      "members": {
```

```
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
              }
            },
            "ResourceType": {
              "target": "com.amazonaws.licensemanager#ResourceType",
              "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
              }
            },
            "ErrorMessage": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
              }
            },
            "FailureTime": {
              "target": "com.amazonaws.licensemanager#DateTime",
              "traits": {

      "smithy.api#documentation": "<p>Failure time.</p>"
              }
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {

              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
```

```
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

                "smithy.api#required": {}
              }
            },
            "AmiAssociationScope": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecifications": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseSpecification"
          }
        },
        "com.amazonaws.licensemanager#LicenseStatus": {
          "type": "enum",
          "members": {
            "AVAILABLE": {
```

```
            "target": "smithy.api#Unit",

        "traits": {
            "smithy.api#enumValue": "AVAILABLE"
          }
        },
        "PENDING_AVAILABLE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_AVAILABLE"
          }
        },
        "DEACTIVATED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DEACTIVATED"
          }
        },
        "SUSPENDED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "SUSPENDED"
          }
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
  },
  "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
```

```
            "EntitlementUsages": {
               "target": "com.amazonaws.licensemanager#EntitlementUsageList",
               "traits": {
                  "smithy.api#documentation": "<p>License entitlement usages.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

         }
      },
      "com.amazonaws.licensemanager#LicenseUsageException": {
         "type": "structure",
         "members": {
            "Message": {
               "target": "com.amazonaws.licensemanager#Message"
            }
         },
         "traits": {
            "aws.protocols#awsQueryError": {
               "code": "LicenseUsageFailure",
               "httpResponseCode": 412
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
         },
         "output": {

      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n        <p>Resource associations need not consume licenses from a license
 configuration. \n        For example, an AMI or a stopped instance might not consume a license (depending on \n
 the license rules).</p>"
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results
 to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
```

```
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

 "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
```

```
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
    <li>\n                <p>\n                    <code>GranteePrincipalARN</code>\n                </p>\n            </li>\n
<li>\n                <p>\n                    <code>ProductSKU</code>\n                </p>\n            </li>\n            <li>\n
<p>\n                    <code>LicenseIssuerName</code>\n
        </p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
        "type": "structure",
```

```
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",

    "traits": {
            "smithy.api#documentation": "<p>Distributed grant details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
      },
      "errors": [
        {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
      }
```

```
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
      "type": "structure",
      "members": {
        "LicenseOperationFailureList": {
          "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
          "traits": {
            "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurations": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
      },

   "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArns": {
          "target": "com.amazonaws.licensemanager#StringList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#BoxInteger",
          "traits": {
```

```
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurations": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurations",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",

             "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
```

```
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
       },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
    "type": "structure",
    "members": {
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {

"smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
```

```
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>\n        Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
          "type": "structure",
          "members": {
            "LicenseConversionTasks": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configuration tasks for your
account.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target":
```

```
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
         }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
{
         "type": "structure",
         "members": {
            "Filters": {
               "target": "com.amazonaws.licensemanager#FilterList",
               "traits": {
                  "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n        <ul>\n          <li>\n            <p>\n              <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n        </ul>"
               }
            },
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            },
            "MaxResults": {
               "target": "com.amazonaws.licensemanager#MaxSize100",
               "traits":
{
                  "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

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            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }

        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
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                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
              },
              {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
              }
            ],
            "traits": {
              "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
            }
          },
          "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
            "type": "structure",
            "members": {
              "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
                  "smithy.api#required": {}
                }
              },
              "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
              },
              "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#input": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
            "type": "structure",
            "members": {
              "LicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                  "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
                }
              },
```

```
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersions": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
```

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            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
               "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
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        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

       "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token
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for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
        "type": "structure",
        "members": {
            "Licenses": {
                "target": "com.amazonaws.licensemanager#LicenseList",
                "traits": {
                    "smithy.api#documentation": "<p>License details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {

  "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrants": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
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            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while specifying the\n          recipient as this Amazon Web Services account, your organization, or an organizational unit\n          (OU) to which this member account belongs.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
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            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
        "type": "structure",
        "members": {
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
                    "smithy.api#required": {}
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n        <li>\n            <p>\n                <code>ParentArn</code>\n            </p>\n        </li>\n
<li>\n            <p>\n                <code>GranteePrincipalArn</code>\n            </p>\n        </li>\n    </ul>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#MaxSize100",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
```

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    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
          "traits": {
            "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
      "type": "structure",
      "members": {
        "GrantArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
           "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n      <ul>\n        <li>\n          <p>\n            <code>ProductSKU</code>\n          </p>\n
      </li>\n        <li>\n          <p>\n            <code>LicenseIssuerName</code>\n          </p>\n
</li>\n        <li>\n          <p>\n            <code>LicenseArn</code>\n          </p>\n        </li>\n
<li>\n          <p>\n            <code>GrantStatus</code>\n          </p>\n        </li>\n        <li>\n
<p>\n
      <code>GranterAccountId</code>\n          </p>\n        </li>\n      </ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
```

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        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
      "type": "structure",
      "members": {
        "Grants": {
          "target": "com.amazonaws.licensemanager#GrantList",
           "traits": {
            "smithy.api#documentation": "<p>Received grant details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListReceivedLicenses": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
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            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {

    "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
```

```
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
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```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
          "type": "structure",
          "members": {
            "LicenseArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
              }
            },

           "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>Status</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>IssuerName</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Beneficiary</code>\n            </p>\n          </li>\n        </ul>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
               "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#MaxSize100",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
          "type": "structure",
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    "members": {
      "Licenses": {
        "target": "com.amazonaws.licensemanager#GrantedLicenseList",
        "traits": {
          "smithy.api#documentation": "<p>Received license details.</p>"
        }
      },

      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventory": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
         "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
          "type": "structure",
          "members": {
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
               "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#InventoryFilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n       are supported:</p>\n       <ul>\n       <li>\n       <p>\n       <code>account_id</code>
- The ID of the Amazon Web Services account that owns the resource.\n       Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n
         </li>\n         <li>\n         <p>\n         <code>application_name</code> - The name of the
application. \n         Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n
  </li>\n         <li>\n         <p>\n         <code>license_included</code> - The type of license included. \n
         Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n         Possible values
are <code>sql-server-enterprise</code> | \n         <code>sql-server-standard</code> | \n         <code>sql-
server-web</code> |  \n         <code>windows-server-datacenter</code>.</p>\n         </li>\n         <li>\n
  <p>\n         <code>platform</code> - The platform of the resource.\n         Logical operators are
<code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n         </li>\n         <li>\n         <p>\n
      <code>resource_id</code> - The ID of the resource. \n         Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n         </li>\n         <li>\n         <p>\n
    <code>tag:<key></code> - The key/value combination of a tag assigned \n         to the resource. Logical
operators are <code>EQUALS</code> (single account) or\n         <code>EQUALS</code> |
<code>NOT_EQUALS</code> (cross account).</p>\n         </li>\n       </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
```

```
    "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
      "type": "structure",
      "members": {
        "ResourceInventoryList": {
          "target": "com.amazonaws.licensemanager#ResourceInventoryList",
          "traits": {
            "smithy.api#documentation": "<p>Information
about the resources.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#ListTagsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

      "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists your tokens.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListTokensRequest": {
          "type": "structure",
          "members": {
            "TokenIds": {
              "target": "com.amazonaws.licensemanager#StringList",
              "traits": {

                "smithy.api#documentation": "<p>Token IDs.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n          <li>\n          <p>\n          <code>LicenseArns</code>\n          </p>\n          </li>\n
</ul>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#MaxSize100",
              "traits": {
                "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
              }
            }
          },
          "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
        "type": "structure",
        "members": {
            "Tokens": {
                "target": "com.amazonaws.licensemanager#TokenList",
                "traits": {
                    "smithy.api#documentation": "<p>Received token details.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying license\n            consumption details by resource at a selected point in time. Use this action to audit the\n            current license consumption for any license inventory and configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n            are supported:</p>\n            <ul>\n              <li>\n                <p>\n                  <code>resourceArn</code> - The ARN of the license configuration resource.\n                  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n              </li>\n              <li>\n                <p>\n                  <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n                  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n              </li>\n              <li>\n                <p>\n                  <code>resourceAccount</code> - The ID of the account that owns the resource. \n                  Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n              </li>\n            </ul>"
              }
            }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {

"LicenseConfigurationUsageList": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#Location": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#Long": {
        "type": "long"
      },
      "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
          "ResourceType":
{
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
            }
          },
          "AssociationCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
            }
          }
```

```
    },
    "traits": {
        "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
    }
},
"com.amazonaws.licensemanager#ManagedResourceSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
    }
},
"com.amazonaws.licensemanager#MaxSize100": {

"type": "integer",
    "traits": {
        "smithy.api#range": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#MaxSize3StringList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 3
        }
    }
},
"com.amazonaws.licensemanager#Message": {
    "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
    "type": "structure",
    "members": {
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The key name.</p>"
            }
        },

"Value": {
            "target": "com.amazonaws.licensemanager#String",
```

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            "traits": {
              "smithy.api#documentation": "<p>The value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
        }
      },
      "com.amazonaws.licensemanager#MetadataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Metadata"
        }
      },
      "com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n          Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n          <code>Status</code> parameter.</p>\n          <ul>\n            <li>\n              <p>As a license administrator, you can optionally specify an\n                <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n            </li>\n            <li>\n              <p>As a grantor, you can optionally specify an\n                <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n                account in your organization.</p>\n            </li>\n            <li>\n              <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n                <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n                are activating the grant.</p>\n            </li>\n          </ul>\n          <dl>\n            <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n            <dd>\n              <p>Use this value to activate a grant without replacing any member accounts\n                active grants for the same product.</p>\n            </dd>\n            <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n            <dd>\n              <p>Use this value to activate a
```

```
grant and disable other active grants in any\n                member accounts
 for the same product. This action will also replace their\n                previously activated grants with this activated
grant.</p>\n            </dd>\n        </dl>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant,
such as activation\n        override behavior. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in
License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
    },
    "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
            "EnableIntegration": {
                "target": "com.amazonaws.licensemanager#Boolean",
                "traits": {
                    "smithy.api#default": false,
                    "smithy.api#documentation":
 "<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterList": {
            "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
            "traits": {
                "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n        <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n        <p>The following filters and are supported when
the resource type \n        is <code>SSM_MANAGED</code>:</p>\n
        <ul>\n            <li>\n                <p>\n                    <code>Application Name</code> - The name of the
application.\n                    Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                    <code>Application Publisher</code> - The publisher of the application.\n                    Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n
<code>Application Version</code> - The version of the application.\n                    Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>Platform
Name</code> - The name of the platform.\n                    Logical operator is <code>EQUALS</code>.</p>\n
</li>\n            <li>\n                <p>\n                    <code>Platform Type</code> - The platform type.\n
Logical operator is <code>EQUALS</code>.</p>\n
        </li>\n            <li>\n                <p>\n                    <code>Tag:key</code> - The key of a tag attached to an
Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>.  The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key.\n                    </p>\n            </li>\n            <li>\n
<p>\n                    <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from
automated discovery.\n                    Logical operator is <code>NOT_EQUALS</code>.</p>\n            </li>\n
<li>\n                <p>\n                    <code>License Included</code> - The type of license included.\n                    Logical
operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n                    Possible values are:
<code>sql-server-enterprise</code> | \n                    <code>sql-server-standard</code> | \n                    <code>sql-server-
web</code> |  \n                    <code>windows-server-datacenter</code>.</p>\n            </li>\n        </ul>\n
<p>The following filters and logical operators are supported when the resource type\n        is
<code>RDS</code>:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>Engine Edition</code> -
The edition of the database engine.\n                    Logical operator is <code>EQUALS</code>.\n                    Possible
values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-
se2</code>.</p>\n            </li>\n            <li>\n                <p>\n                    <code>License Pack</code> - The license
pack.\n                    Logical operator is <code>EQUALS</code>.\n                    Possible values are: <code>data
guard</code> | \n                    <code>diagnostic pack sqlt</code> | \n
                    <code>tuning pack sqlt</code> | \n                    <code>ols</code> | \n                    <code>olap</code>.</p>\n
    </li>\n        </ul>",
                "smithy.api#required": {}
            }
        }
    },
```

```
    "traits": {
        "smithy.api#documentation": "<p>Describes product information for a license configuration.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilter": {
    "type": "structure",
    "members": {
        "ProductInformationFilterName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Filter name.</p>",
                "smithy.api#required": {}
            }
        },
        "ProductInformationFilterValue": {
            "target": "com.amazonaws.licensemanager#StringList",

      "traits": {
                "smithy.api#documentation": "<p>Filter value.</p>"
            }
        },
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
```

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            "MaxTimeToLiveInMinutes": {
               "target": "com.amazonaws.licensemanager#BoxInteger",
               "traits": {
                  "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
         }
      },
      "com.amazonaws.licensemanager#RateLimitExceededException": {
         "type": "structure",
         "members": {
            "Message": {
               "target": "com.amazonaws.licensemanager#Message"
            }
         },
         "traits": {
             "aws.protocols#awsQueryError": {
               "code": "RateLimitExceeded",
               "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
         }
      },
      "com.amazonaws.licensemanager#ReceivedMetadata": {
         "type": "structure",
         "members": {
            "ReceivedStatus": {
               "target": "com.amazonaws.licensemanager#ReceivedStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Received status.</p>"
               }
            },
            "ReceivedStatusReason": {
               "target": "com.amazonaws.licensemanager#StatusReasonMessage",
               "traits": {
                  "smithy.api#documentation": "<p>Received
 status reason.</p>"
               }
            },
            "AllowedOperations": {
               "target": "com.amazonaws.licensemanager#AllowedOperationList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Allowed operations.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReceivedStatus": {
        "type": "enum",
        "members": {
          "PENDING_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_WORKFLOW"
            }
          },
          "PENDING_ACCEPT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
```

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        },
        "DISABLED": {
          "target": "smithy.api#Unit",
           "traits": {
             "smithy.api#enumValue": "DISABLED"
          }
        },
        "WORKFLOW_COMPLETED": {
          "target": "smithy.api#Unit",
          "traits": {
             "smithy.api#enumValue": "WORKFLOW_COMPLETED"
          }
        }
    }
},
"com.amazonaws.licensemanager#RedirectException": {
    "type": "structure",
    "members": {
        "Location": {
          "target": "com.amazonaws.licensemanager#Location",
          "traits": {
             "smithy.api#httpHeader": "Location"
          }
        },
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
         "smithy.api#error": "client",
        "smithy.api#httpError": 308
    }
},
"com.amazonaws.licensemanager#RejectGrant": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#RejectGrantRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#RejectGrantResponse"
    },
    "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

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            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#RejectGrantRequest": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}

  }
        },
        "com.amazonaws.licensemanager#RejectGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
{
        "type": "enum",
        "members": {
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "WEEKLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Weekly"
            }
          },
          "MONTHLY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Monthly"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportContext": {
        "type": "structure",
        "members": {
          "licenseConfigurationArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
```

```
        "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this generator reports on.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequency": {
        "type": "structure",
        "members": {
            "value": {
                "target": "com.amazonaws.licensemanager#Integer",
                "traits": {
                    "smithy.api#documentation": "<p>Number of times within the frequency period that a report is generated.  \n         The only supported value is <code>1</code>.</p>"
                }
            },
            "period": {
                "target": "com.amazonaws.licensemanager#ReportFrequencyType",

              "traits": {
                    "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
    },
    "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
            "DAY": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "DAY"
                }
            },
            "WEEK": {
                "target": "smithy.api#Unit",
                "traits": {
                    "smithy.api#enumValue": "WEEK"
                }
            },
```

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            "MONTH": {
                "target": "smithy.api#Unit",
                "traits":
{
                    "smithy.api#enumValue": "MONTH"
                }
            }
        }
    },
    "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>"
                }
            },
            "ReportType": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
                "traits": {
                    "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
                }
            },
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
                }
            },
            "LastRunStatus": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
                }
```

```
            },
            "LastRunFailureReason":
 {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
               }
            },
            "LastReportGenerationTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
               }
            },
            "ReportCreatorAccount": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
               }
            },
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }
```

```
}
    },
    "traits": {
        "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportGenerator"
    }
},
"com.amazonaws.licensemanager#ReportGeneratorName": {
    "type": "string",
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        }
    }
},
"com.amazonaws.licensemanager#ReportType": {
    "type": "enum",
    "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
            }

},
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "LicenseConfigurationUsageReport"
            }
        }
    }
},
"com.amazonaws.licensemanager#ReportTypeList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
    }
},
"com.amazonaws.licensemanager#ResourceInventory": {
    "type": "structure",
    "members": {
```

```
            "ResourceId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the resource.</p>"
              }
            },
            "ResourceType": {
              "target": "com.amazonaws.licensemanager#ResourceType",
              "traits":
{
                "smithy.api#documentation": "<p>Type of resource.</p>"
              }
            },
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
              }
            },
            "Platform": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Platform of the resource.</p>"
              }
            },
            "PlatformVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
              }
            },
            "ResourceOwningAccountId":
{
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details about a resource.</p>"
          }
        },
        "com.amazonaws.licensemanager#ResourceInventoryList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#ResourceInventory"
          }
```

```
},
"com.amazonaws.licensemanager#ResourceLimitExceededException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
   },
   "traits": {
      "aws.protocols#awsQueryError": {
         "code": "ResourceLimitExceeded",

       "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
   }
},
"com.amazonaws.licensemanager#ResourceNotFoundException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
   },
   "traits": {
      "aws.protocols#awsQueryError": {
         "code": "InvalidResource.NotFound",
         "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
   }
},
"com.amazonaws.licensemanager#ResourceType": {
   "type": "enum",
    "members": {
      "EC2_INSTANCE": {
         "target": "smithy.api#Unit",
         "traits": {
            "smithy.api#enumValue": "EC2_INSTANCE"
         }
      },
      "EC2_HOST": {
         "target": "smithy.api#Unit",
         "traits": {
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                "smithy.api#enumValue": "EC2_HOST"
              }
            },
            "EC2_AMI": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "EC2_AMI"
              }
            },
            "RDS": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "RDS"
              }
            },
            "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
              "target": "smithy.api#Unit",
              "traits": {
                 "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#S3Location": {
          "type": "structure",
          "members": {
            "bucket": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
              }
            },
            "keyPrefix": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
          }
         },
        "com.amazonaws.licensemanager#ServerInternalException": {
          "type": "structure",
          "members": {
            "Message": {
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            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InternalError",
            "httpResponseCode": 500
          },
          "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
          "smithy.api#error": "server",
          "smithy.api#httpError": 500
        }
      },
      "com.amazonaws.licensemanager#SignedToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 4096
          }
        }
      },
      "com.amazonaws.licensemanager#StatusReasonMessage": {
        "type": "string",
        "traits":
{
          "smithy.api#length": {
            "min": 0,
            "max": 400
          },
          "smithy.api#pattern": "^[\\s\\S]+$"
        }
      },
      "com.amazonaws.licensemanager#String": {
        "type": "string"
      },
      "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
          "Key": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Tag key.</p>"
```

```
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation":
"<p>Tag value.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#String"
        }
      },
      "com.amazonaws.licensemanager#TagList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
"com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits":
{
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more tags.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
            "TokenId": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Token ID.</p>"
                }
            },
```

```
            "TokenType": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
              }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "ExpirationTime": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
              }
            },
            "TokenProperties": {
              "target": "com.amazonaws.licensemanager#MaxSize3StringList",
              "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller.</p>"
              }
            },
            "RoleArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
              }
            }
          },
          "traits": {

            "smithy.api#documentation": "<p>Describes a token.</p>"
          }
        },
        "com.amazonaws.licensemanager#TokenList": {
          "type": "list",
```

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      "member": {
        "target": "com.amazonaws.licensemanager#TokenData"
      }
    },
    "com.amazonaws.licensemanager#TokenString": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 0,
          "max": 4096
        },
        "smithy.api#pattern": "^\\S+$"
      }
    },
    "com.amazonaws.licensemanager#TokenType": {
      "type": "enum",
      "members": {
        "REFRESH_TOKEN": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "REFRESH_TOKEN"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#UntagResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UntagResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UntagResourceResponse"
      },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanager#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
        "type": "structure",
        "members": {},
```

```
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

"target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
       }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "LicenseConfigurationArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
            "smithy.api#required": {}
          }
        },
```

```
            "LicenseConfigurationStatus": {
               "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
               "traits": {
                  "smithy.api#documentation": "<p>New status of the license configuration.</p>"
               }
            },
            "LicenseRules": {
               "target": "com.amazonaws.licensemanager#StringList",
               "traits": {

 "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
   configuration is licenseAffinityToHost.</p>"
               }
            },
            "LicenseCount": {
               "target": "com.amazonaws.licensemanager#BoxLong",
               "traits": {
                  "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
               }
            },
            "LicenseCountHardLimit": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
               }
            },
            "Name": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>New name
of the license configuration.</p>"
               }
            },
            "Description": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>New description of the license configuration.</p>"
               }
            },
            "ProductInformationList": {
               "target": "com.amazonaws.licensemanager#ProductInformationList",
               "traits": {
                  "smithy.api#documentation": "<p>New product information.</p>"
               }
            },
            "DisassociateWhenNotFound": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
                "target": "com.amazonaws.licensemanager#ReportGeneratorName",
                "traits": {
                    "smithy.api#documentation": "<p>Name of the report generator.</p>",
                    "smithy.api#required": {}
                }
            },
            "Type": {
                "target": "com.amazonaws.licensemanager#ReportTypeList",
                "traits": {
                    "smithy.api#documentation": "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n        <li>\n        <p>License configuration report - Reports the number and details of consumed licenses for a license configuration.</p>\n        </li>\n        <li>\n        <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n        </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            },
            "ReportContext": {
                "target": "com.amazonaws.licensemanager#ReportContext",
                "traits": {
                    "smithy.api#documentation": "<p>The report context.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportFrequency": {
                "target": "com.amazonaws.licensemanager#ReportFrequency",
```

```
            "traits":
{
                "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
                "smithy.api#required": {}
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n         <p>You can update the license specifications of AMIs, instances, and
hosts.\n         You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
        }
    },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "AddLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
                }
            },
            "RemoveLicenseSpecifications": {
                "target": "com.amazonaws.licensemanager#LicenseSpecifications",
                "traits": {
                    "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
    }
},
"com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
        "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License
 Manager information is stored.</p>"
              }
            },
            "SnsTopicArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
              }
            },
            "OrganizationConfiguration": {
              "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
              "traits": {
                "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account discovery.</p>"
              }
            },
            "EnableCrossAccountsDiscovery": {
              "target": "com.amazonaws.licensemanager#BoxBoolean",
              "traits": {
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

        }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
          "type": "structure",
          "members": {},
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
          "type": "string",
          "traits": {
            "smithy.api#length": {
              "min": 0,
              "max": 50
            }
          }
        },
        "com.amazonaws.licensemanager#ValidationException": {
```

```
          "type": "structure",
          "members": {
             "Message": {
                "target": "com.amazonaws.licensemanager#Message"
             }
          },
          "traits": {
             "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

        "smithy.api#error": "client",
             "smithy.api#httpError": 400
          }
       }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {
```

```
 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
```

```
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.215 aws-aws-sdk-go-v2 1.26.2

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1.216 aws-aws-sdk-go-v2 1.14.9

1.216.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {
```

```
 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
```

```
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
 nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListReceivedLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
```

```
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
```

```
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack,
 options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil
 {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
```

```
  OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
```

```
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
```

```
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
```

```
 Information about the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
```

```
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CreateLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
 middleware.Before); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
  OperationName: "GetLicense",
 }
}
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
```

```
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 //
 Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err
 != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return
 nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
```

```
//
// *
// Beneficiary
//
// * ProductSKU
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "license-manager",
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
```

```
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
```

```
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  SigningName:   "license-manager",
```

OperationName: "DeleteLicense",
}
}
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import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string
```

```
 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if
 err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  SigningName:   "grafana",
  OperationName: "AssociateLicense",
 }
}
```

1.217 yaml 1.4.0

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1.218 structured-merge-diff 4.4.1

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1.220 x-oauth2 0.15.0

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1.221 prometheus-client-model 0.5.0

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Metadata-Version: 1.1
Name: prometheus-client
Version: 0.5.0
Summary: Python client for the Prometheus monitoring system.
Home-page: https://github.com/prometheus/client_python
Author: Brian Brazil
Author-email: brian.brazil@robustperception.io
License: Apache Software License 2.0
Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
Keywords: prometheus monitoring instrumentation client
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language ::
Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: System :: Monitoring

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Found in path(s):
* /opt/cola/permits/1866430933_1702594539.77632/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client.egg-info/PKG-INFO
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* /opt/cola/permits/1866430933_1702594539.77632/0/prometheus-client-0-5-0-1-tar-gz/prometheus_client-0.5.0/prometheus_client/decorator.py
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License: Apache Software License 2.0
Description: See https://github.com/prometheus/client_python/blob/master/README.md for documentation.
Keywords: prometheus monitoring instrumentation client
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language ::
 Python :: 3.4
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1.222 afero 1.11.0

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1.223 sys-mountinfo 0.7.1

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1.224 aws-aws-sdk-go-v2 1.26.6

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1.225 aws-smithy-go 1.19.0

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1.226 go-containerregistry 0.17.0

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Files: internal/snapref/*

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Files: s2/cmd/internal/filepathx/*

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.227 sigstore-rekor 1.3.4

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Pull Request Process

1. Create an [issue](https://github.com/sigstore/rekor/issues)

outlining the fix or feature.
2. Fork the rekor repository to your own github account and clone it locally.
3. Hack on your changes.
4. Update the README.md with details of changes to any interface, this includes new environment variables, exposed ports, useful file locations, CLI parameters and new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit Message Guidelines) below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core rekor team](https://github.com/orgs/github.com/sigstore/teams/core-team) before merging.
8. If your pull request consists of more than one commit, please squash your commits as described in [Squash Commits](#Squash Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article]((https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of the Pull Request, but also assists the release process where commit messages are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this
change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, preceded
```

by a single space, with blank lines in between, but conventions
vary here

If you use an issue tracker, put references to them at the bottom,
like this:

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

## Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the review cycle), please perform a git squash
once a reviewer
has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

```
initial commit
second commit
final commit
```

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):

```
git rebase -i HEAD~3
```

You default text editor will then open up and you will see the following::

```
pick eb36612 initial commit
pick 9ac8968 second commit
pick a760569 final commit

# Rebase eb1429f..a760569 onto eb1429f (3 commands)
```

We want to rebase on top of our first commit, so we change the other two commits
to `squash`:

```
pick eb36612 initial commit
squash 9ac8968 second commit
```
```

squash a760569 final commit

After this, should you wish to update your commit message to better summarise
all of your pull request, run:

git commit --amend

You will then need to force push (assuming your initial commit(s) were posted
to github):

git push origin your-branch --force

Alternatively,
a core member can squash your commits within Github.
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package spec

import (
 "encoding/json"
```

```
 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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package spec

import (
 "encoding/json"
 "testing"

 "github.com/stretchr/testify/assert"
 "github.com/stretchr/testify/require"
)

var license = License{
 LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
 VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
 "name": "the name",
 "url": "the url",
 "x-license": "custom
 term"
}`

func TestIntegrationLicense(t *testing.T) {

 // const licenseYAML = "name: the name\nurl: the url\n"

 b, err := json.MarshalIndent(license, "", "\t")
```

```
require.NoError(t, err)
assert.Equal(t, licenseJSON, string(b))

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
require.NoError(t, err)
assert.EqualValues(t, license, actual)
}
```

1.233 sigs.k8s.io-release-utils 0.7.7

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1.234 go-openapi-strfmt 0.21.8

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1.235 go-openapi-validate 0.22.3

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1.236 xanzy-go-gitlab 0.94.0

1.236.1 Available under license :

```
package gitlab

import (
 "fmt"
 "net/http"
 "testing"

 "github.com/stretchr/testify/require"
)

func TestLicenseService_GetLicense(t *testing.T) {
 mux, client := setup(t)
```

```
mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
 testMethod(t, r, http.MethodGet)
 fmt.Fprintf(w, `
  {
    "id": 2,
    "plan": "gold",
    "historical_max": 300,
    "maximum_user_count": 300,
    "expired": false,
    "overage": 200,
    "user_limit": 100,
    "active_users": 300,
    "licensee": {
   "Name": "Venkatesh Thalluri"
    },
    "add_ons": {
   "GitLab_FileLocks": 1,
   "GitLab_Auditor_User": 1
    }
  }
 `)
})

want := &License{
 ID:              2,
 Plan:            "gold",
 HistoricalMax:   300,
 MaximumUserCount: 300,
 Expired:         false,
 Overage:         200,
 UserLimit:       100,
 ActiveUsers:     300,
 Licensee: struct {
  Name    string `json:"Name"`
  Company string `json:"Company"`
  Email   string `json:"Email"`
 }{
  Name:
   "Venkatesh Thalluri",
  Company: "",
  Email:   "",
 },
 AddOns: struct {
  GitLabAuditorUser int `json:"GitLab_Auditor_User"`
  GitLabDeployBoard int `json:"GitLab_DeployBoard"`
  GitLabFileLocks   int `json:"GitLab_FileLocks"`
  GitLabGeo         int `json:"GitLab_Geo"`
```

```
  GitLabServiceDesk int `json:"GitLab_ServiceDesk"`
 }{
  GitLabAuditorUser: 1,
  GitLabDeployBoard: 0,
  GitLabFileLocks:   1,
  GitLabGeo:         0,
  GitLabServiceDesk: 0,
 },
}

l, resp, err := client.License.GetLicense()
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, l)
}

func TestLicenseService_GetLicense_StatusNotFound(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  w.WriteHeader(http.StatusNotFound)
 })

 l, resp, err := client.License.GetLicense()
 require.Error(t, err)
 require.Nil(t, l)
 require.Equal(t, http.StatusNotFound, resp.StatusCode)
}

func
 TestLicenseService_AddLicense(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodPost)
  fmt.Fprintf(w, `
   {
    "id": 2,
    "plan": "gold",
    "historical_max": 300,
    "maximum_user_count": 300,
    "expired": false,
    "overage": 200,
    "user_limit": 100,
    "active_users": 300,
    "licensee": {
   "Name": "Venkatesh Thalluri"
```

```
    },
    "add_ons": {
   "GitLab_FileLocks": 1,
   "GitLab_Auditor_User": 1
    }
  }
 `)
})

want := &License{
 ID:             2,
 Plan:           "gold",
 HistoricalMax:  300,
 MaximumUserCount: 300,
 Expired:        false,
 Overage:        200,
 UserLimit:      100,
 ActiveUsers:    300,
 Licensee: struct {
  Name    string `json:"Name"`
  Company string `json:"Company"`
  Email   string `json:"Email"`
 }{
  Name:    "Venkatesh Thalluri",
  Company: "",
  Email:   "",
 },
 AddOns:
struct {
  GitLabAuditorUser int `json:"GitLab_Auditor_User"`
  GitLabDeployBoard int `json:"GitLab_DeployBoard"`
  GitLabFileLocks   int `json:"GitLab_FileLocks"`
  GitLabGeo         int `json:"GitLab_Geo"`
  GitLabServiceDesk int `json:"GitLab_ServiceDesk"`
 }{
  GitLabAuditorUser: 1,
  GitLabDeployBoard: 0,
  GitLabFileLocks:   1,
  GitLabGeo:         0,
  GitLabServiceDesk: 0,
 },
}

l, resp, err := client.License.AddLicense(nil)
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, l)
```

```
 l, resp, err = client.License.AddLicense(nil, errorOption)
 require.EqualError(t, err, "RequestOptionFunc returns an error")
 require.Nil(t, resp)
 require.Nil(t, l)
}

func TestLicenseService_AddLicense_StatusNotFound(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/license", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodPost)
  w.WriteHeader(http.StatusNotFound)
 })

 l, resp, err := client.License.AddLicense(nil)
 require.Error(t,
 err)
 require.Nil(t, l)
 require.Equal(t, http.StatusNotFound, resp.StatusCode)
}
```

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Version 2.0, January 2004

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//

package gitlab

import (
 "fmt"
 "net/http"
)

// LicenseTemplate represents a license template.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html
type LicenseTemplate struct {
 Key         string   `json:"key"`
 Name        string   `json:"name"`
 Nickname    string   `json:"nickname"`
 Featured    bool     `json:"featured"`
 HTMLURL     string   `json:"html_url"`
 SourceURL
   string   `json:"source_url"`
 Description string   `json:"description"`
 Conditions  []string `json:"conditions"`
 Permissions []string `json:"permissions"`
 Limitations []string `json:"limitations"`
 Content     string   `json:"content"`
}

// LicenseTemplatesService handles communication with the license templates
// related methods of the GitLab API.
//
// GitLab API docs: https://docs.gitlab.com/ee/api/templates/licenses.html
type LicenseTemplatesService struct {
 client *Client
}

// ListLicenseTemplatesOptions represents the available
// ListLicenseTemplates() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#list-license-templates
type ListLicenseTemplatesOptions struct {
 ListOptions
 Popular *bool `url:"popular,omitempty" json:"popular,omitempty"`
}
```

```
// ListLicenseTemplates get all license templates.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#list-license-templates
func (s *LicenseTemplatesService)
 ListLicenseTemplates(opt *ListLicenseTemplatesOptions, options ...RequestOptionFunc) ([]*LicenseTemplate,
*Response, error) {
 req, err := s.client.NewRequest(http.MethodGet, "templates/licenses", opt, options)
 if err != nil {
  return nil, nil, err
 }

 var lts []*LicenseTemplate
 resp, err := s.client.Do(req, &lts)
 if err != nil {
  return nil, resp, err
 }

 return lts, resp, nil
}

// GetLicenseTemplateOptions represents the available
// GetLicenseTemplate() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#single-license-template
type GetLicenseTemplateOptions struct {
 Project  *string `url:"project,omitempty" json:"project,omitempty"`
 Fullname *string `url:"fullname,omitempty" json:"fullname,omitempty"`
}

// GetLicenseTemplate get a single license template. You can pass parameters
// to replace the license placeholder.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/templates/licenses.html#single-license-template
func
 (s *LicenseTemplatesService) GetLicenseTemplate(template string, opt *GetLicenseTemplateOptions, options
...RequestOptionFunc) (*LicenseTemplate, *Response, error) {
 u := fmt.Sprintf("templates/licenses/%s", template)

 req, err := s.client.NewRequest(http.MethodGet, u, opt, options)
 if err != nil {
  return nil, nil, err
 }

 lt := new(LicenseTemplate)
```

```
 resp, err := s.client.Do(req, lt)
 if err != nil {
  return nil, resp, err
 }

 return lt, resp, nil
}
{
 "id": 3,
 "name": "CUSTOM",
 "approval_status": "blacklisted"
}
{
 "id": 3,
 "name": "ISC",
 "approval_status": "blacklisted"
}
{
 "id": 123,
 "name": "MIT",
 "approval_status": "approved"
}
[
 {
   "id": 1,
   "name": "MIT",
   "approval_status": "approved"
 },
 {
   "id": 3,
   "name": "ISC",
   "approval_status": "blacklisted"
 }
]
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```

```
//

package gitlab

import (
 "fmt"
 "net/http"
)

// ManagedLicensesService handles communication with the managed licenses
// methods of the GitLab API.
//
// GitLab API docs: https://docs.gitlab.com/ee/api/managed_licenses.html
type ManagedLicensesService struct {
 client *Client
}

// ManagedLicense represents a managed license.
//
// GitLab API docs: https://docs.gitlab.com/ee/api/managed_licenses.html
type
 ManagedLicense struct {
 ID            int                    `json:"id"`
 Name          string                 `json:"name"`
 ApprovalStatus LicenseApprovalStatusValue `json:"approval_status"`
}

// ListManagedLicenses returns a list of managed licenses from a project.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#list-managed-licenses
func (s *ManagedLicensesService) ListManagedLicenses(pid interface{}, options ...RequestOptionFunc)
([]*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses", PathEscape(project))

 req, err := s.client.NewRequest(http.MethodGet, u, nil, options)
 if err != nil {
  return nil, nil, err
 }

 var mls []*ManagedLicense
 resp, err := s.client.Do(req, &mls)
 if err != nil {
  return nil, resp, err
```

```
 }

 return mls, resp, nil
}

// GetManagedLicense returns an existing managed license.
//
// GitLab API docs:
//
 https://docs.gitlab.com/ee/api/managed_licenses.html#show-an-existing-managed-license
func (s *ManagedLicensesService) GetManagedLicense(pid, mlid interface{}, options ...RequestOptionFunc)
(*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
 }
 license, err := parseID(mlid)
 if err != nil {
  return nil, nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses/%s", PathEscape(project), PathEscape(license))

 req, err := s.client.NewRequest(http.MethodGet, u, nil, options)
 if err != nil {
  return nil, nil, err
 }

 ml := new(ManagedLicense)
 resp, err := s.client.Do(req, ml)
 if err != nil {
  return nil, resp, err
 }

 return ml, resp, nil
}

// AddManagedLicenseOptions represents the available AddManagedLicense() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#create-a-new-managed-license
type AddManagedLicenseOptions struct {
 Name          *string                `url:"name,omitempty"
 json:"name,omitempty"`
 ApprovalStatus *LicenseApprovalStatusValue `url:"approval_status,omitempty" json:"approval_status,omitempty"`
}

// AddManagedLicense adds a managed license to a project.
//
```

```
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#create-a-new-managed-license
func (s *ManagedLicensesService) AddManagedLicense(pid interface{}, opt *AddManagedLicenseOptions,
options ...RequestOptionFunc) (*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses", PathEscape(project))

 req, err := s.client.NewRequest(http.MethodPost, u, opt, options)
 if err != nil {
  return nil, nil, err
 }

 ml := new(ManagedLicense)
 resp, err := s.client.Do(req, ml)
 if err != nil {
  return nil, resp, err
 }

 return ml, resp, nil
}

// DeleteManagedLicense deletes a managed license with a given ID.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#delete-a-managed-license
func
 (s *ManagedLicensesService) DeleteManagedLicense(pid, mlid interface{}, options ...RequestOptionFunc)
(*Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, err
 }
 license, err := parseID(mlid)
 if err != nil {
  return nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses/%s", PathEscape(project), PathEscape(license))

 req, err := s.client.NewRequest(http.MethodDelete, u, nil, options)
 if err != nil {
  return nil, err
 }

 return s.client.Do(req, nil)
}
```

```
// EditManagedLicenceOptions represents the available EditManagedLicense() options.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#edit-an-existing-managed-license
type EditManagedLicenceOptions struct {
 ApprovalStatus *LicenseApprovalStatusValue `url:"approval_status,omitempty" json:"approval_status,omitempty"`
}

// EditManagedLicense updates an existing managed license with a new approval
// status.
//
// GitLab API
 docs:
// https://docs.gitlab.com/ee/api/managed_licenses.html#edit-an-existing-managed-license
func (s *ManagedLicensesService) EditManagedLicense(pid, mlid interface{}, opt *EditManagedLicenceOptions,
options ...RequestOptionFunc) (*ManagedLicense, *Response, error) {
 project, err := parseID(pid)
 if err != nil {
  return nil, nil, err
 }
 license, err := parseID(mlid)
 if err != nil {
  return nil, nil, err
 }
 u := fmt.Sprintf("projects/%s/managed_licenses/%s", PathEscape(project), PathEscape(license))

 req, err := s.client.NewRequest(http.MethodPatch, u, opt, options)
 if err != nil {
  return nil, nil, err
 }

 ml := new(ManagedLicense)
 resp, err := s.client.Do(req, ml)
 if err != nil {
  return nil, resp, err
 }

 return ml, resp, nil
}
package gitlab

import (
 "fmt"
 "net/http"
 "testing"

 "github.com/stretchr/testify/require"
```

```
)

func TestLicenseTemplatesService_ListLicenseTemplates(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/templates/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  fmt.Fprintf(w, `
   [
    {
     "key": "apache-2.0",
     "name": "Apache License 2.0",
     "nickname": null,
     "featured": true,
     "html_url": "http://choosealicense.com/licenses/apache-2.0/",
     "source_url": "http://www.apache.org/licenses/LICENSE-2.0.html",
     "description": "A permissive license that also provides an express grant of patent rights from contributors to users.",
     "conditions": [
      "include-copyright",
      "document-changes"
     ],
     "permissions": [
      "commercial-use",
      "modifications",
      "distribution",
      "patent-use",
      "private-use"
     ],
     "limitations": [
      "trademark-use",
      "no-liability"
     ],
     "content":
 "Apache License\n Version 2.0, January 2004\n [...]"
    }
   ]
  `)
 })

 want := []*LicenseTemplate{{
  Key:         "apache-2.0",
  Name:        "Apache License 2.0",
  Nickname:    "",
  Featured:    true,
  HTMLURL:     "http://choosealicense.com/licenses/apache-2.0/",
  SourceURL:   "http://www.apache.org/licenses/LICENSE-2.0.html",
  Description: "A permissive license that also provides an express grant of patent rights from contributors to users.",
  Conditions:  []string{"include-copyright", "document-changes"},
```

```
 Permissions: []string{"commercial-use", "modifications", "distribution", "patent-use", "private-use"},
 Limitations: []string{"trademark-use", "no-liability"},
 Content:     "Apache License\n Version 2.0, January 2004\n [...]",
}}

lts, resp, err := client.LicenseTemplates.ListLicenseTemplates(nil)
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, lts)

lts, resp, err = client.LicenseTemplates.ListLicenseTemplates(nil,
errorOption)
require.EqualError(t, err, "RequestOptionFunc returns an error")
require.Nil(t, resp)
require.Nil(t, lts)
}

func TestLicenseTemplatesService_ListLicenseTemplates_StatusNotFound(t *testing.T) {
mux, client := setup(t)

mux.HandleFunc("/api/v4/templates/licenses", func(w http.ResponseWriter, r *http.Request) {
 testMethod(t, r, http.MethodGet)
 w.WriteHeader(http.StatusNotFound)
})

lts, resp, err := client.LicenseTemplates.ListLicenseTemplates(nil)
require.Error(t, err)
require.Nil(t, lts)
require.Equal(t, http.StatusNotFound, resp.StatusCode)
}

func TestLicenseTemplatesService_GetLicenseTemplate(t *testing.T) {
mux, client := setup(t)

mux.HandleFunc("/api/v4/templates/licenses/apache-2.0", func(w http.ResponseWriter, r *http.Request) {
 testMethod(t, r, http.MethodGet)
 fmt.Fprintf(w, `
  {
   "key": "apache-2.0",
   "name": "Apache License 2.0",
   "nickname": null,
   "featured": true,
   "html_url": "http://choosealicense.com/licenses/apache-2.0/",
   "source_url":
"http://www.apache.org/licenses/LICENSE-2.0.html",
   "description": "A permissive license that also provides an express grant of patent rights from contributors to users.",
   "conditions": [
    "include-copyright",
```

```
    "document-changes"
   ],
   "permissions": [
    "commercial-use",
    "modifications",
    "distribution",
    "patent-use",
    "private-use"
   ],
   "limitations": [
    "trademark-use",
    "no-liability"
   ],
   "content": "Apache License\n Version 2.0, January 2004\n [...]"
  }
 `)
})

want := &LicenseTemplate{
 Key:         "apache-2.0",
 Name:        "Apache License 2.0",
 Nickname:    "",
 Featured:    true,
 HTMLURL:     "http://choosealicense.com/licenses/apache-2.0/",
 SourceURL:   "http://www.apache.org/licenses/LICENSE-2.0.html",
 Description: "A permissive license that also provides an express grant of patent rights from contributors to users.",
 Conditions:  []string{"include-copyright", "document-changes"},
 Permissions:
[]string{"commercial-use", "modifications", "distribution", "patent-use", "private-use"},
 Limitations: []string{"trademark-use", "no-liability"},
 Content:     "Apache License\n Version 2.0, January 2004\n [...]",
}

lt, resp, err := client.LicenseTemplates.GetLicenseTemplate("apache-2.0", nil)
require.NoError(t, err)
require.NotNil(t, resp)
require.Equal(t, want, lt)

lt, resp, err = client.LicenseTemplates.GetLicenseTemplate("apache-2.0", nil, errorOption)
require.EqualError(t, err, "RequestOptionFunc returns an error")
require.Nil(t, resp)
require.Nil(t, lt)

lt, resp, err = client.LicenseTemplates.GetLicenseTemplate("mit", nil)
require.Error(t, err)
require.Nil(t, lt)
require.Equal(t, http.StatusNotFound, resp.StatusCode)
}
```

```
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//

package gitlab

import (
 "net/http"
 "reflect"
 "testing"
)

func TestListManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  mustWriteHTTPResponse(t, w, "testdata/list_project_managed_licenses.json")
 })

 licenses, _, err := client.ManagedLicenses.ListManagedLicenses(1)
 if
 err != nil {
  t.Errorf("ManagedLicenses.ListManagedLicenses returned error: %v", err)
 }

 want := []*ManagedLicense{
  {
   ID:            1,
   Name:          "MIT",
   ApprovalStatus: LicenseApproved,
  },
  {
   ID:            3,
   Name:          "ISC",
   ApprovalStatus: LicenseBlacklisted,
```

```
 },
 }

 if !reflect.DeepEqual(want, licenses) {
  t.Errorf("ManagedLicenses.ListManagedLicenses returned %+v, want %+v", licenses, want)
 }
}

func TestGetManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses/3", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodGet)
  mustWriteHTTPResponse(t, w, "testdata/get_project_managed_license.json")
 })

 license, _, err := client.ManagedLicenses.GetManagedLicense(1, 3)
 if err != nil {
  t.Errorf("ManagedLicenses.GetManagedLicense returned error: %v", err)
 }

 want := &ManagedLicense{
  ID:             3,
  Name:           "ISC",
  ApprovalStatus:
 LicenseBlacklisted,
 }

 if !reflect.DeepEqual(want, license) {
  t.Errorf("ManagedLicenses.GetManagedLicense returned %+v, want %+v", license, want)
 }
}

func TestAddManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodPost)
  testBody(t, r, `{"name":"MIT","approval_status":"approved"}`)
  mustWriteHTTPResponse(t, w, "testdata/add_project_managed_license.json")
 })

 ops := AddManagedLicenseOptions{
  Name:           Ptr("MIT"),
  ApprovalStatus: Ptr(LicenseApproved),
 }
 license, _, err := client.ManagedLicenses.AddManagedLicense(1, &ops)
 if err != nil {
```

```
 t.Errorf("ManagedLicenses.AddManagedLicense returned error: %v", err)
 }

 want := &ManagedLicense{
  ID:            123,
  Name:          "MIT",
  ApprovalStatus: LicenseApproved,
 }

 if !reflect.DeepEqual(want, license) {
  t.Errorf("ManagedLicenses.AddManagedLicense returned %+v,
 want %+v", license, want)
 }
}

func TestDeleteManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses/3", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodDelete)
 })

 _, err := client.ManagedLicenses.DeleteManagedLicense(1, 3)
 if err != nil {
  t.Errorf("ManagedLicenses.RemoveManagedLicense returned error: %v", err)
 }
}

func TestEditManagedLicenses(t *testing.T) {
 mux, client := setup(t)

 mux.HandleFunc("/api/v4/projects/1/managed_licenses/3", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, http.MethodPatch)
  testBody(t, r, `{"approval_status":"blacklisted"}`)
  mustWriteHTTPResponse(t, w, "testdata/edit_project_managed_license.json")
 })

 ops := EditManagedLicenceOptions{
  ApprovalStatus: Ptr(LicenseBlacklisted),
 }
 license, _, err := client.ManagedLicenses.EditManagedLicense(1, 3, &ops)
 if err != nil {
  t.Errorf("ManagedLicenses.EditManagedLicense returned error: %v", err)
 }

 want
 := &ManagedLicense{
  ID:            3,
```

```
 Name:           "CUSTOM",
 ApprovalStatus: LicenseBlacklisted,
 }

 if !reflect.DeepEqual(want, license) {
  t.Errorf("ManagedLicenses.EditManagedLicense returned %+v, want %+v", license, want)
 }
}
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//

package gitlab

import (
 "fmt"
 "net/http"
 "time"
)

// LicenseService handles communication with the license
// related methods of the GitLab API.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html
type LicenseService struct {
 client *Client
}

// License represents a GitLab license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html
type License struct {
 ID
```

```
        int       `json:"id"`
 Plan           string    `json:"plan"`
 CreatedAt      *time.Time `json:"created_at"`
 StartsAt       *ISOTime   `json:"starts_at"`
 ExpiresAt      *ISOTime   `json:"expires_at"`
 HistoricalMax  int       `json:"historical_max"`
 MaximumUserCount int     `json:"maximum_user_count"`
 Expired        bool      `json:"expired"`
 Overage        int       `json:"overage"`
 UserLimit      int       `json:"user_limit"`
 ActiveUsers    int       `json:"active_users"`
 Licensee       struct {
  Name    string `json:"Name"`
  Company string `json:"Company"`
  Email   string `json:"Email"`
 } `json:"licensee"`
 // Add on codes that may occur in legacy licenses that don't have a plan yet.
 // https://gitlab.com/gitlab-org/gitlab/-/blob/master/ee/app/models/license.rb
 AddOns struct {
  GitLabAuditorUser int `json:"GitLab_Auditor_User"`
  GitLabDeployBoard int `json:"GitLab_DeployBoard"`
  GitLabFileLocks   int `json:"GitLab_FileLocks"`
  GitLabGeo
        int `json:"GitLab_Geo"`
  GitLabServiceDesk int `json:"GitLab_ServiceDesk"`
 } `json:"add_ons"`
}

func (l License) String() string {
 return Stringify(l)
}

// GetLicense retrieves information about the current license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#retrieve-information-about-the-current-license
func (s *LicenseService) GetLicense(options ...RequestOptionFunc) (*License, *Response, error) {
 req, err := s.client.NewRequest(http.MethodGet, "license", nil, options)
 if err != nil {
  return nil, nil, err
 }

 l := new(License)
 resp, err := s.client.Do(req, l)
 if err != nil {
  return nil, resp, err
 }
```

```
 return l, resp, nil
}

// AddLicenseOptions represents the available AddLicense() options.
//
// https://docs.gitlab.com/ee/api/license.html#add-a-new-license
type AddLicenseOptions struct {
 License *string `url:"license" json:"license"`
}

// AddLicense adds a new license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#add-a-new-license
func
 (s *LicenseService) AddLicense(opt *AddLicenseOptions, options ...RequestOptionFunc) (*License, *Response,
error) {
 req, err := s.client.NewRequest(http.MethodPost, "license", opt, options)
 if err != nil {
  return nil, nil, err
 }

 l := new(License)
 resp, err := s.client.Do(req, l)
 if err != nil {
  return nil, resp, err
 }

 return l, resp, nil
}

// DeleteLicense deletes an existing license.
//
// GitLab API docs:
// https://docs.gitlab.com/ee/api/license.html#delete-a-license
func (s *LicenseService) DeleteLicense(licenseID int, options ...RequestOptionFunc) (*Response, error) {
 u := fmt.Sprintf("license/%d", licenseID)

 req, err := s.client.NewRequest(http.MethodDelete, u, nil, options)
 if err != nil {
  return nil, err
 }

 return s.client.Do(req, nil)
}
```

1.237 sigstore-sigstore-pkg-signature-kms-hashivault 1.7.6

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1.238 open-policy-agent-opa 0.59.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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1.239 buildkite-agent 3.59.0

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1.240 aws-aws-sdk-go-v2-service-kms 1.27.2

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```
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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

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// workspace to Grafana Enterprise (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-
Enterprise.html)
// .
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil,
 err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err !=
 nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
```

```
 }
 if err = addDisableHTTPSMiddleware(stack,
 options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

AWS SDK for Go

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```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
```

```
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
      uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return
 err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
        "type": "integer"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
        "type": "long"
     },
     "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
           "Name": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The type of name to filter by.</p>"
              }
           },
           "Values": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
              "traits": {
                 "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
              }
           },
           "Operator": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
```

```
            "traits": {
              "smithy.api#documentation": "<p>An operator for filtering results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {

          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/GetServiceSettings"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest":
```

```
{
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists the settings defined for Linux subscriptions discovery. The
settings include if\n      Organizations integration has been enabled, and
 which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays
 the aggregated data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
```

```
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
          },
          "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
          },
          "InstanceType": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }

        },
          "AccountID": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of the instance.</p>"
            }
          },
          "Region": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
            }
          },
          "UsageOperation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For
 more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-
subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User
Guide</i>.</p>"
            }
          },
          "ProductCode": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
                }
            },
            "LastUpdatedTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The time in which the last discovery
 updated the instance details.</p>"
                }
            },
            "SubscriptionName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription being used by the instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details discovered information about a running instance using Linux
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
        "operations": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
            }
        ],

    "traits": {
            "aws.api#service": {
                "sdkId": "License Manager Linux Subscriptions",
                "arnNamespace": "license-manager-linux-subscriptions",
                "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-linux-subscriptions"
            },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
                    "x-api-key",
                    "authorization",
                    "x-amz-date",

 "x-amz-security-token",
                    "Access-Control-Allow-Headers",
                    "Access-Control-Allow-Methods",
                    "Access-Control-Allow-Origin"
                ],
                "additionalExposedHeaders": [
                    "x-amzn-errortype",
                    "x-amzn-requestid",
                    "x-amzn-trace-id"
                ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can discover and track your commercial
Linux subscriptions on running\n      Amazon EC2 instances.</p>",
```

```
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region": {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The
 AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the
configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

             "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]
                }
              ],
              "type": "tree",
```

```
 "rules": [
    {

   "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
               {
                  "ref": "UseFIPS"
               },
               true
            ]
          }
       ],
       "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
       "type": "error"
    },
    {
       "conditions": [],
       "type": "tree",
       "rules": [
          {

      "conditions": [
                {
                   "fn": "booleanEquals",
                   "argv": [
                      {
                         "ref": "UseDualStack"
                      },
                      true
                   ]
                }
             ],
             "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
             "type": "error"
          },
          {
             "conditions": [],

"endpoint": {
                "url": {
                   "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
             },
             "type": "endpoint"
```

```
                    }
                ]
            }
        ]
    },
    {
        "conditions": [],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",

    "argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ],

"assign": "PartitionResult"
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseFIPS"
                                            },
                                            true
                                        ]
```

```
                    },

                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [
                        {

                    "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]

}
                                ]
                            },
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },

                                     "supportsDualStack"
                                        ]
                                    }
                                ]
```

```
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                        {

                "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
            ]

        },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {

        "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
```

```
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,

{
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]
                      }
                    ]
                  }
                ],
                "type": "tree",

              "rules": [
                  {
                    "conditions": [],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                          "properties": {},
                          "headers": {}

                        },
                        "type": "endpoint"
                      }
                    ]
                  }
                ]
              },
              {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
              }
            ]
```

```
},
                                {
                                   "conditions": [
                                      {
                                         "fn": "booleanEquals",
                                         "argv": [
                                            {
                                               "ref": "UseDualStack"
                                            },
                                            true
                                         ]
                                      }
                                   ],
                                   "type": "tree",
                                   "rules": [
                                      {

                                    "conditions": [
                                            {
                                               "fn": "booleanEquals",
                                               "argv": [
                                                  true,
                                                  {
                                                     "fn": "getAttr",
                                                     "argv": [
                                                        {
                                                           "ref": "PartitionResult"
                                                        },
                                                        "supportsDualStack"
                                                     ]
                                                  }
                                               ]
                                            }
                                         ],
                                         "type": "tree",
                                         "rules": [
                                            {
                                               "conditions": [],
                                               "type": "tree",
                                               "rules": [
                                                  {
                                                     "conditions": [],

                                                   "endpoint": {
                                                            "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                            "properties": {},
                                                            "headers": {}
```

```
                                        },
                                        "type": "endpoint"
                                    }
                                ]
                            }
                        ]
                    },

        {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "type": "tree",
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url":
"https://license-manager-linux-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            }
        ]
    }
]
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {

"endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
```

```
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {

      "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
         "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
```

```
{
                    "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
            },
            "params": {
                "Region": "cn-north-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                 "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": true,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "endpoint":
{
                    "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": true
```

```
    }
  },
  {
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-gov-east-1",
      "UseFIPS": false,
       "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
       }
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
      "Region": "us-iso-east-1",
      "UseFIPS": false,
      "UseDualStack": true
```

```
            }
        },
        {

    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {

             "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
              }
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled
and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
```

```
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
                }
            },
            "params": {
                "Region": "us-isob-east-1",

    "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",

      "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
```

```
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,

        "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }

      }
          ],
          "version": "1.0"
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "Enabled",
            "value": "Enabled",
            "documentation": "Enabled LinuxSubscriptionsDiscovery"
          },
          {
            "name": "Disabled",
```

```
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
              }
            ]
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
          "type": "structure",
          "members": {
            "SourceRegions": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
               "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
              }
            },
            "OrganizationIntegration": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
              "traits": {
                "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
          "type":
 "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
```

```
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {

        "code": 200,
              "method": "POST",
              "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "Instances"
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
          "type": "structure",
          "members": {
            "Filters": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by
 the name of\n      <code>AmiID</code> with an optional operator to see subscriptions that match, partially\n match, or don't match a certain Amazon Machine Image (AMI) ID.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>AmiID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>InstanceID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>AccountID</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Status</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>Region</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>UsageOperation</code>\n      </p>\n      </li>\n      <li>\n
    <p>\n      <code>ProductCode</code>\n      </p>\n      </li>\n      <li>\n      <p>\n
     <code>InstanceType</code>\n      </p>\n      </li>\n      </ul>\n      <p>The valid Operators for this filter are:</p>\n      <ul>\n      <li>\n      <p>\n      <code>contains</code>\n      </p>\n      </li>\n      <li>\n      <p>\n      <code>equals</code>\n      </p>\n      </li>\n      <li>\n
        <p>\n      <code>Notequal</code>\n      </p>\n      </li>\n      </ul>"
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
```

```
        }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>",
                "smithy.api#length": {
                  "min": 1,
                  "max": 16384
                }
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
          "type": "structure",
          "members": {
            "Instances": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
              "traits": {
                "smithy.api#documentation":
 "<p>An array that contains instance objects.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your\n      organization, the returned results will include data aggregated across your accounts in\n Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Subscriptions"
            }

        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't match a certain subscription's name.</p>\n      <p>The valid names for this filter are:</p>\n      <ul>\n <li>\n <p>\n <code>Subscription</code>\n </p>\n </li>\n </ul>\n <p>The valid Operators for this filter are:</p>\n
      <ul>\n <li>\n <p>\n <code>contains</code>\n </p>\n </li>\n <li>\n <p>\n <code>equals</code>\n </p>\n </li>\n <li>\n <p>\n <code>Notequal</code>\n </p>\n </li>\n </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
```

```
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>",
            "smithy.api#length": {

              "min": 1,
                "max": 16384
            }
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
      "type": "structure",
      "members": {
        "Subscriptions": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
          "traits": {
            "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "EQUAL",
            "value": "Equal",
            "documentation": "Equal operator"
          },
          {
            "name": "NOT_EQUAL",
            "value": "NotEqual",
```

```
                "documentation": "Not equal operator"
            },
            {
                "name": "CONTAINS",
                "value": "Contains",
                "documentation": "Contains operator"
            }
        ],
        "smithy.api#length": {
            "min": 1,
            "max": 20
        }
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled OrganizationIntegration"
            },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled OrganizationIntegration"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

{
                "name": "InProgress",
                "value": "InProgress",
                "documentation": "InProgress status"
            },
```

```
                {
                    "name": "Completed",
                    "value": "Completed",
                    "documentation": "Completed status"
                },
                {
                    "name": "Successful",
                    "value": "Successful",
                    "documentation": "Successful status"
                },
                {
                    "name": "Failed",
                    "value": "Failed",
                    "documentation": "Failed status"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#length": {
                    "min": 1,
                    "max": 100
                }
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
```

```
        "type": "structure",
        "members": {
          "Name": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the subscription.</p>"

        }
          },
          "Type": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>"
            }
          },
          "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>The total amount of running instances using this subscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied due to request throttling.</p>",
          "smithy.api#error": "client"
        }
      },
```

```
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
      },

    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest":
{
      "type": "structure",
      "members": {
        "LinuxSubscriptionsDiscovery": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
          "traits": {
            "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
            "smithy.api#required": {}
          }
        },
        "LinuxSubscriptionsDiscoverySettings": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
          "traits": {
            "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
```

```
  "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target": "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },

            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation":
 "<p>A message which details the Linux subscriptions service settings current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
```

```
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
          }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
          "type": "structure",
          "members": {
              "message": {
                  "target": "smithy.api#String"
              }
          },
          "traits": {
              "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
              "smithy.api#error": "client"
          }
      }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //   - Beneficiary
 //   - ProductSKU
 //   - Fingerprint
 //
  - Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if
err := addProtocolFinalizerMiddlewares(stack, options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "ListLicenses",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
```

```
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 //
 This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "DisassociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
```

```
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is
// the same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type
 CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
```

```
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource
 Name (ARN) of the checkout license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil
 {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
```

```
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack);
 err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
```

```
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier
 that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5) .
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData
```

```
 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return
```

```
 err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
```

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide
 to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
```

```
// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity
*types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string
```

```
// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add
protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
```

```
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
 err != nil {
 return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
```

```
 Region:       region,
 ServiceID:    ServiceID,
 OperationName:
"CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
```

```
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return
 err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack);
 err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:    ServiceID,
  OperationName: "GetLicense",
 }
}
```
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```
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package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
   - ProductSKU
 //   - Status
 //   - Fingerprint
 //   - IssuerName
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
```

```
 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
```

```
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack);
 err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

}
}

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation":
```

```
"<p>Details about an Active Directory identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n          <note>\n          <p>Your estimated bill for charges on the number of users and related
costs will take 48\n        hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n
        monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n          </note>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/AssociateUser"
          },
          "smithy.api#idempotent": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
            "smithy.api#required": {}
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the
EC2 instance, which provides user-based subscriptions.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>The identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
      "type": "structure",
      "members": {
        "InstanceUserSummary": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
           "traits": {
            "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
            "smithy.api#required": {}
          }
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
      "type": "integer"
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n      resource.</p>",
        "smithy.api#error": "server"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Deregisters the identity provider from providing user-based
```

```
subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
          "type": "structure",
          "members": {
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                 "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                 "smithy.api#required": {}
               }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                 "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
          "type": "structure",
          "members": {
            "IdentityProviderSummary": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
              "traits": {
                 "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                 "smithy.api#required": {}
               }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
           },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/DisassociateUser"
          },
          "smithy.api#idempotent": {}
        }

    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
              "smithy.api#required": {}
            }
          },
          "InstanceId": {
            "target": "smithy.api#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
              "smithy.api#required": {}
            }
          },
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation":
"<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
          "InstanceUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },

    "com.amazonaws.licensemanagerusersubscriptions#Filter": {
        "type": "structure",
        "members": {
          "Attribute": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of an attribute to use as a filter.</p>"
            }
          },
          "Operation": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The type of search (For example, eq, geq, leq)</p>"
```

```
            }
          },
          "Value": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>A filter name and value pair that is used
 to return more specific results from a describe\n      operation. Filters can be used to match a set of resources by
specific criteria, such as tags,\n      attributes, or IDs.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
          "ActiveDirectoryIdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that details an Active Directory identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Details about an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
```

```
            "traits": {
                "smithy.api#documentation": "<p>An object that details the registered identity providers product related configuration\n      settings such as the subnets to provision VPC endpoints.</p>",
                "smithy.api#required":
 {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status of an identity provider.</p>",
              "smithy.api#required": {}
            }
          },
          "FailureMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The failure message associated with an identity provider.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation":
 "<p>Describes an identity provider.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
          "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",
              "smithy.api#required": {}
```

```
            }
          },
          "Status": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status
of an EC2 instance resource.</p>",
              "smithy.api#required": {}
            }
          },
          "Products": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
              "smithy.api#required": {}
            }
          },
          "LastStatusCheckDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date of the last status check.</p>"
            }
          },
          "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
            }

    }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
          "Username": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "InstanceId": {
            "target": "smithy.api#String",
            "traits":
{
                "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                "smithy.api#required": {}
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
```

```
            }
          }

  },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",

       "version": "2018-05-10",
        "operations": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
          },
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"

},
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
            "sdkId": "License Manager User Subscriptions",
            "arnNamespace": "license-manager-user-subscriptions",
            "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
          },
          "aws.auth#sigv4": {
            "name": "license-manager-user-subscriptions"
           },
          "aws.protocols#restJson1": {},
          "smithy.api#cors": {
            "additionalAllowedHeaders": [
              "*",
              "content-type",
              "x-amz-content-sha256",
              "x-amz-user-agent",
              "x-amzn-platform-id",
              "x-amzn-trace-id",
              "content-length",
              "x-api-key",
              "authorization",
              "x-amz-date",
              "x-amz-security-token",
              "Access-Control-Allow-Headers",
              "Access-Control-Allow-Methods",
              "Access-Control-Allow-Origin"
            ],
            "additionalExposedHeaders": [
              "x-amzn-errortype",
```

```
                "x-amzn-requestid",
                "x-amzn-trace-id"

 ]
            },
            "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with\n      a per user subscription fee on Amazon EC2 instances.</p>",
            "smithy.api#title": "AWS License Manager User Subscriptions",
            "smithy.rules#endpointRuleSet": {
              "version": "1.0",
              "parameters": {
                "Region": {
                  "builtIn": "AWS::Region",
                  "required": false,
                  "documentation": "The AWS region used to dispatch the request.",
                  "type": "String"
                },
                "UseDualStack": {
                  "builtIn": "AWS::UseDualStack",
                  "required": true,
                  "default": false,
                  "documentation": "When true, use the dual-stack
 endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
                  "type": "Boolean"
                },
                "UseFIPS": {
                  "builtIn": "AWS::UseFIPS",
                  "required": true,
                  "default": false,
                  "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
                  "type": "Boolean"
                },
                "Endpoint": {
                  "builtIn": "SDK::Endpoint",
                  "required": false,
                  "documentation": "Override the endpoint used to send this request",
                  "type": "String"
                }

            },
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "isSet",
                    "argv": [
                      {
```

```
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },

                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],

      "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
              },
              "properties": {},
              "headers": {}
            },
```

```
                "type": "endpoint"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [

    {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",
                    "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "type": "tree",

"rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
                          true
                        ]
                      },
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
```

```
                "ref": "UseDualStack"

              },
              true
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {
                    "fn": "getAttr",

"argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              },
              {
                "fn": "booleanEquals",
                "argv": [
                  true,
                  {

        "fn": "getAttr",
                      "argv": [
                        {
                          "ref": "PartitionResult"
                        },
                        "supportsDualStack"
                      ]
                    }
                  ]
                }
              ],
              "type": "tree",
              "rules": [
                {
```

```
            "conditions": [],
                                    "endpoint": {
                                       "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                       "properties": {},
                                       "headers": {}
                                    },
                                    "type": "endpoint"
                                 }
                              ]
                           },
                           {
                              "conditions": [],
                              "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                               "type": "error"
                           }
                        ]
                     },
                     {
                        "conditions": [
                           {
                              "fn": "booleanEquals",
                              "argv": [
                                 {
                                    "ref": "UseFIPS"
                                 },
                                 true
                              ]
                           }
                        ],
                        "type": "tree",

         "rules": [
                           {
                              "conditions": [
                                 {
                                    "fn": "booleanEquals",
                                    "argv": [
                                       true,
                                       {
                                          "fn": "getAttr",
                                          "argv": [
                                             {
                                                "ref": "PartitionResult"
                                             },
                                             "supportsFIPS"
```

```
                                    ]
                                        }
                                    ]
                                }
                            ],
                            "type": "tree",
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}

                },
                                    "type": "endpoint"
                                }
                            ]
                        },
                        {
                            "conditions": [],
                            "error": "FIPS is enabled but this partition does not support FIPS",
                            "type": "error"
                        }
                    ]
                },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
                                {
                                    "ref": "UseDualStack"
                                },
                                true
                            ]
                        }
                    ],
                    "type": "tree",
                    "rules": [
                        {
                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        true,
                                        {
```

```
                                    "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [
                            {

                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does
 not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
]
```

```
        },
        {
          "conditions":
[],
          "error": "Invalid Configuration: Missing Region",
          "type": "error"
        }
      ]
    },
    "smithy.rules#endpointTests": {
      "testCases": [
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation":
"For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
            }
          },

        "params": {
            "Region": "us-east-1",
```

```
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with
 FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
            }
          },

      "params": {
            "Region": "cn-north-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1
with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
        }
      },

  "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-gov-east-1",
```

```
                    "UseFIPS": true,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-gov-east-1
with FIPS disabled and DualStack enabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
                    }
                },
                "params": {
                    "Region": "us-gov-east-1",
                    "UseFIPS": false,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
                "expect": {
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                    }
                },

    "params": {
                    "Region": "us-gov-east-1",
                    "UseFIPS": false,
                    "UseDualStack": false
                }
            },
            {
                "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                    "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
                },
                "params": {
                    "Region": "us-iso-east-1",
                    "UseFIPS": true,
                    "UseDualStack": true
                }
            },
            {
                "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
                "expect":
{
                    "endpoint": {
```

```
                "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
              "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack":
true
            }
          },
          {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
              }
            },
            "params": {
              "Region": "us-iso-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "error": "FIPS and DualStack are enabled, but
this partition does not support one or both"
            },
            "params": {
              "Region": "us-isob-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }

  },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
      },
       "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
```

```
            }
        },
        {

"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
            "expect": {
              "endpoint": {
                 "url": "https://example.com"
              }
            },
            "params": {
              "UseFIPS": false,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
               "UseFIPS": true,
              "UseDualStack": false,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
              "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": true,
              "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
               "error": "Invalid Configuration: Missing Region"
            }
        }
    ],
    "version": "1.0"
```

```
        }
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
         },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the identity providers for user-based subscriptions.</p>",
        "smithy.api#http": {
          "code": 200,
          "method": "POST",
          "uri": "/identity-provider/ListIdentityProviders"
        },
        "smithy.api#paginated":
{
          "inputToken": "NextToken",
          "outputToken": "NextToken",
          "pageSize": "MaxResults",
          "items": "IdentityProviderSummaries"
        }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse":
{
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list identity providers operation.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
        "errors": [
          {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
          "type":
 "structure",
          "members": {
            "InstanceSummaries": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
              "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list instances operation.</p>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
           },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
              "inputToken": "NextToken",
              "outputToken": "NextToken",
              "pageSize": "MaxResults",
              "items": "ProductUserSummaries"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
          "type": "structure",
          "members": {
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name
 of the user-based subscription product.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {

  "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the list product subscriptions operation.</p>"
            }
          },

       "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
        },
```

```
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated":
{
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
```

```
                "smithy.api#required": {}
            }
        },
        "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity
 provider.</p>",
                "smithy.api#required": {}
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
 that match one or\n      more sets of key-value pairs that you specify.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for
 the next set of results.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
    "type": "structure",
    "members": {
        "InstanceUserSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        }
```

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
    "type": "structure",
    "members": {

    "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
            "smithy.api#required": {}
          }
        },
        "Product": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
            "smithy.api#required": {}
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
            "smithy.api#required": {}
          }

},
        "Status": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status of a product for a user.</p>",
            "smithy.api#required": {}
          }
        },
        "StatusMessage": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The status message for a product for a user.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the user.</p>"
          }
        },
        "SubscriptionStartDate": {
```

```
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The
start date of a subscription.</p>"
                }
            },
            "SubscriptionEndDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The end date of a subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The summary of the user-based subscription products for a user.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
```

```
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity
provider.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
              "smithy.api#required": {}
            }
          },
          "Settings": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
            "traits": {
              "smithy.api#documentation": "<p>The registered identity providers product related configuration
settings such as the\n      subnets to provision VPC endpoints.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary":
```

```
{
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The resource couldn't be found.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 404
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
        "type": "string",

    "traits": {
          "smithy.api#length": {
            "min": 5,
            "max": 200
          },
          "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
```

```
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation":
 "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n      your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the\n      subnets to provision VPC endpoints, and the security group ID that
 is associated with the VPC\n      endpoints. The security group should permit inbound TCP port 1688
communication from resources\n      in the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n <note>\n <p>Your estimated bill for charges on the number of users and related costs will take 48\n hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing.
 For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n monthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n </note>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/user/StartProductSubscription"
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
          "type": "structure",
          "members": {
            "Username": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                "smithy.api#required": {}
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
               "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                "smithy.api#required": {}
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the user.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
         "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"

    },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
             "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required":
{}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the user.</p>"
                }
            }
```

```
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation":
"<p>Metadata that describes the start product subscription operation.</p>",
              "smithy.api#required": {}
            }
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
          "message": {

           "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The request was denied because of request throttling. Retry the
request.</p>",
          "smithy.api#error": "client"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
```

```
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n      provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can\n      update any combination of settings in a single operation such as the:</p>\n
<ul>\n            <li>\n                <p>Subnets which you want to add to provision VPC endpoints.</p>\n            </li>\n
          <li>\n                <p>Subnets which you want to remove the VPC endpoints from.</p>\n            </li>\n
<li>\n                <p>Security group ID which permits traffic to the VPC endpoints.</p>\n            </li>\n        </ul>",
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#required": {}
                }
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that\n      require connectivity to activation servers.</p>",
                    "smithy.api#required": {}
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID
```

```
 that allows inbound TCP port 1688 communication between resources in\n      your VPC and the VPC endpoints for activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration settings such as\n      the subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
{
  "smithy": "2.0",
  "metadata": {
    "suppressions": [
        {
            "id": "HttpMethodSemantics",
            "namespace": "*"
        },
        {
            "id": "HttpResponseCodeSemantics",
            "namespace": "*"
        },
        {
            "id": "PaginatedTrait",
            "namespace": "*"
        },
        {
            "id": "HttpHeaderTrait",
            "namespace": "*"
        },
        {
            "id": "HttpUriConflict",
            "namespace": "*"
        },
```

```
      {
        "id": "Service",
        "namespace": "*"
      }
    ]
},
"shapes": {
  "com.amazonaws.licensemanager#AWSLicenseManager": {
    "type": "service",
    "version": "2018-08-01",
    "operations": [
      {
        "target": "com.amazonaws.licensemanager#AcceptGrant"
      },

{
        "target": "com.amazonaws.licensemanager#CheckInLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CheckoutLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrant"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateGrantVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicense"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfiguration"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator"
       },
      {
        "target": "com.amazonaws.licensemanager#CreateLicenseVersion"
      },
      {
        "target": "com.amazonaws.licensemanager#CreateToken"
      },
```

```
    {
      "target": "com.amazonaws.licensemanager#DeleteGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#DeleteToken"
    },
    {
      "target": "com.amazonaws.licensemanager#ExtendLicenseConsumption"

  },
    {
      "target": "com.amazonaws.licensemanager#GetAccessToken"
    },
    {
      "target": "com.amazonaws.licensemanager#GetGrant"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicense"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConfiguration"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseConversionTask"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator"
    },
    {
      "target": "com.amazonaws.licensemanager#GetLicenseUsage"
    },
    {
      "target": "com.amazonaws.licensemanager#GetServiceSettings"
    },
    {
      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration"
     },
    {
      "target": "com.amazonaws.licensemanager#ListDistributedGrants"
```

```
},
{
   "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConfigurations"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseConversionTasks"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource"
},
{

  "target": "com.amazonaws.licensemanager#ListLicenseVersions"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrants"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicenses"
},
{
   "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization"
},
{
   "target": "com.amazonaws.licensemanager#ListResourceInventory"
},
{
   "target": "com.amazonaws.licensemanager#ListTagsForResource"
},
{
   "target": "com.amazonaws.licensemanager#ListTokens"
},
{
   "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration"
 },
{
```

```
            "target": "com.amazonaws.licensemanager#RejectGrant"
          },
          {
            "target": "com.amazonaws.licensemanager#TagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UntagResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseConfiguration"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource"
          },
          {
            "target": "com.amazonaws.licensemanager#UpdateServiceSettings"
          }
        ],
        "traits": {
          "aws.api#service": {
             "sdkId": "License Manager",
            "arnNamespace": "license-manager",
            "cloudFormationName": "LicenseManager",
            "cloudTrailEventSource": "licensemanager.amazonaws.com",
            "endpointPrefix": "license-manager"
          },
          "aws.auth#sigv4": {
            "name": "license-manager"
          },
          "aws.protocols#awsJson1_1": {},
          "smithy.api#documentation": "<p>License Manager makes it easier to manage licenses from software
vendors across multiple \n         Amazon Web Services accounts and on-premises servers.</p>",
          "smithy.api#title": "AWS License Manager",
          "smithy.api#xmlNamespace": {
            "uri": "https://license-manager.amazonaws.com/doc/2018_08_01"
          },
          "smithy.rules#endpointRuleSet": {
            "version": "1.0",
            "parameters": {
              "Region": {
                "builtIn": "AWS::Region",
                "required": false,
                "documentation": "The AWS region used to dispatch the request.",
                "type": "String"
              },
```

```
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send
 this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant
endpoint, dispatching the request will return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]

                }
              ],
              "type": "tree",
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseFIPS"
                        },
                        true
```

```
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {

"conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "endpoint": {
              "url": {
                "ref": "Endpoint"
               },
              "properties": {},
              "headers": {}
            },
            "type": "endpoint"
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Region"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
```

```
                    {
                      "conditions": [
                        {
                          "fn": "aws.partition",
                          "argv": [
                            {
                              "ref": "Region"
                            }
                          ],
                          "assign": "PartitionResult"
                        }
                      ],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref":
"UseFIPS"
                                },
                                true
                              ]
                            },
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                {
                                  "ref": "UseDualStack"
                                },
                                true
                              ]
                            }
                          ],
                          "type": "tree",
                          "rules": [
                            {
                              "conditions": [
                                {
                                  "fn": "booleanEquals",
                                  "argv": [
                                    true,
                                    {
                                      "fn": "getAttr",
                                      "argv": [
                                        {
```

```
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]

                        }
                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },

    "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},
                        "headers": {}

                },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
            "type": "error"
        }
    ]
},
```

```
    {
      "conditions": [
        {
          "fn": "booleanEquals",

       "argv": [
                {
                  "ref": "UseFIPS"
                },
                true
              ]
        }
      ],
      "type": "tree",
      "rules": [
        {
          "conditions": [
            {
              "fn": "booleanEquals",
              "argv": [
                true,

{
                    "fn": "getAttr",
                    "argv": [
                      {
                        "ref": "PartitionResult"
                      },
                      "supportsFIPS"
                    ]
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [

{
                "conditions": [],
                "endpoint": {
                  "url": "https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          },
```

```
                {
                  "conditions": [],
                  "error": "FIPS is enabled but this
partition does not support FIPS",
                  "type": "error"
                }
              ]
            },
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseDualStack"
                    },
                    true
                  ]
                }
              ],
              "type": "tree",
               "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [
                            {
                              "ref": "PartitionResult"
                            },

    "supportsDualStack"
                            ]
                          }
                        ]
                      }
                    ],
                    "type": "tree",
                    "rules": [
                      {
                        "conditions": [],
                        "endpoint": {
                          "url": "https://license-
manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
```

```
                                "properties": {},
                                "headers": {}

                            },
                                "type": "endpoint"
                            }
                        ]
                    },
                    {
                        "conditions": [],
                        "error": "DualStack is enabled but this partition does not support DualStack",
                        "type": "error"
                    }
                ]
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager.{Region}.{PartitionResult#dnsSuffix}",
                     "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    }
  ]
},
{
  "conditions": [],
  "error": "Invalid Configuration: Missing Region",
  "type": "error"
}
  ]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "af-south-1",
        "UseFIPS": false,
```

```
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-2.amazonaws.com"
      }
    },
    "params": {
      "Region": "ap-northeast-2",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.ap-northeast-3.amazonaws.com"
      }
```

```
      },
      "params": {
        "Region": "ap-northeast-3",
        "UseFIPS": false,
        "UseDualStack": false
      }

},
    {
      "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-1.amazonaws.com"

}
      },
      "params": {
        "Region": "ap-southeast-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "ap-southeast-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
```

```
        {

    "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ap-southeast-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "ap-southeast-3",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region ca-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.ca-central-1.amazonaws.com"
            }
          },

         "params": {
            "Region": "ca-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-central-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-central-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region eu-north-1 with FIPS
disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-north-1.amazonaws.com"
            }
```

```
      },
      "params": {
        "Region": "eu-north-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
      },
      "params": {
        "Region":
"eu-south-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {

      "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "Region": "eu-west-2",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
```

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        {
          "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.eu-west-3.amazonaws.com"
            }
          },
          "params": {
            "Region": "eu-west-3",
            "UseFIPS": false,

"UseDualStack": false
          }
        },
        {
          "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.me-south-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "me-south-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.sa-east-1.amazonaws.com"
             }
          },
          "params": {
            "Region": "sa-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.amazonaws.com"
            }
          },
          "params": {
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            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }

},
        {
          "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-2.amazonaws.com"
            }

         },
          "params": {
            "Region": "us-east-2",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-2.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-east-2",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region
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us-west-1 with FIPS disabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager.us-west-1.amazonaws.com"
                      }
                    },
                    "params": {
                      "Region": "us-west-1",
                      "UseFIPS": false,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager-fips.us-west-1.amazonaws.com"
                      }
                    },
                    "params": {

              "Region": "us-west-1",
                      "UseFIPS": true,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
                    "expect": {
                      "endpoint": {
                        "url": "https://license-manager.us-west-2.amazonaws.com"
                      }
                    },
                    "params": {
                      "Region": "us-west-2",
                      "UseFIPS": false,
                      "UseDualStack": false
                    }
                  },
                  {
                    "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",

"expect": {
                      "endpoint": {
                        "url": "https://license-manager-fips.us-west-2.amazonaws.com"
                      }
                    },
                    "params": {
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            "Region": "us-west-2",
            "UseFIPS": true,
            "UseDualStack": false
          }
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          "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,

            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-east-1.api.aws"
            }
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url":
"https://license-manager.cn-north-1.amazonaws.com.cn"
            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
```

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      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
        }
      },
      "params": {
        "Region": "cn-northwest-1",
        "UseFIPS": false,
        "UseDualStack": false

}
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
         }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
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    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
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            "UseDualStack": true
          }
        },

        {
          "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-east-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-gov-east-1.amazonaws.com"
            }
           },
          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager.us-gov-west-1.amazonaws.com"
            }
          },
          "params": {
            "Region": "us-gov-west-1",
            "UseFIPS": false,
            "UseDualStack": false
          }
        },
        {
          "documentation":
"For region us-gov-west-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
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                    "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
                  }
                },
                "params": {
                  "Region": "us-gov-west-1",
                  "UseFIPS": true,
                  "UseDualStack": false
                }
              },
              {
                "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager-fips.us-gov-east-1.api.aws"
                  }
                },

    "params": {
                  "Region": "us-gov-east-1",
                  "UseFIPS": true,
                  "UseDualStack": true
                }
              },
              {
                "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.us-gov-east-1.api.aws"
                  }
                },
                "params": {
                  "Region": "us-gov-east-1",
                  "UseFIPS": false,
                  "UseDualStack": true
                }
              },
              {
                "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://license-manager.us-iso-east-1.c2s.ic.gov"
                  }
                },
                "params": {
                  "Region": "us-iso-east-1",
                  "UseFIPS": false,
                  "UseDualStack": false
```

```
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
         "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
        }
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
        "error": "DualStack is enabled
but this partition does not support DualStack"
      },
      "params": {
        "Region": "us-iso-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
        }
      },
      "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
```

```
            "UseDualStack": false
          }
        },

        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-fips.us-isob-east-1.sc2s.sgov.gov"
            }
          },

    "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
            "endpoint": {
              "url": "https://example.com"
            }
          },
```

```
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
      "expect": {
        "endpoint": {
          "url": "https://example.com"
        }
      },
      "params": {
        "UseFIPS": false,

    "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips enabled and dualstack disabled",
      "expect": {
        "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false,
        "Endpoint": "https://example.com"
      }
    },
    {
      "documentation": "For custom endpoint with fips disabled and dualstack enabled",
      "expect": {
        "error":
 "Invalid Configuration: Dualstack and custom endpoint are not supported"
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true,
        "Endpoint": "https://example.com"
      }
    },
    {
```

```
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrant": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#AcceptGrantRequest"

},
        "output": {
            "target": "com.amazonaws.licensemanager#AcceptGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"

    }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Accepts the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#AcceptGrantRequest": {
```

```
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#AcceptGrantResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant
ARN.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Grant version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#AccessDeniedException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
```

```
      "traits": {
        "aws.protocols#awsQueryError": {

"code": "ServiceAccessDenied",
          "httpResponseCode": 401
        },
        "smithy.api#documentation": "<p>Access to resource denied.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 401
      }
    },
    "com.amazonaws.licensemanager#ActivationOverrideBehavior": {
      "type": "enum",
      "members": {
        "DISTRIBUTED_GRANTS_ONLY": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DISTRIBUTED_GRANTS_ONLY"
          }
        },
        "ALL_GRANTS_PERMITTED_BY_ISSUER": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "ALL_GRANTS_PERMITTED_BY_ISSUER"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#AllowedOperation": {

   "type": "enum",
      "members": {
        "CREATE_GRANT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CreateGrant"
          }
        },
        "CHECKOUT_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutLicense"
          }
        },
        "CHECKOUT_BORROW_LICENSE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "CheckoutBorrowLicense"
```

```
            }
          },
          "CHECK_IN_LICENSE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CheckInLicense"
            }
          },
          "EXTEND_CONSUMPTION_LICENSE":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ExtendConsumptionLicense"
            }
          },
          "LIST_PURCHASED_LICENSES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ListPurchasedLicenses"
            }
          },
          "CREATE_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "CreateToken"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#AllowedOperationList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#AllowedOperation"
        },
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max":
7
          }
        }
      },
      "com.amazonaws.licensemanager#Arn": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
```

```
            },
            "smithy.api#pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
        }
    },
    "com.amazonaws.licensemanager#ArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        }
    },
    "com.amazonaws.licensemanager#AuthorizationException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError":
{
                "code": "AuthorizationFailure",
                "httpResponseCode": 403
            },
            "smithy.api#documentation": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the IAM\n        policy associated with this account.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 403
        }
    },
    "com.amazonaws.licensemanager#AutomatedDiscoveryInformation": {
        "type": "structure",
        "members": {
            "LastRunTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time that automated discovery last ran.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes automated discovery.</p>"
        }
    },

  "com.amazonaws.licensemanager#Boolean": {
        "type": "boolean",
        "traits": {
```

```
            "smithy.api#default": false
        }
    },
    "com.amazonaws.licensemanager#BorrowConfiguration": {
        "type": "structure",
        "members": {
            "AllowEarlyCheckIn": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates whether early check-ins are allowed.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxTimeToLiveInMinutes": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum time for the borrow configuration, in minutes.</p>",
                    "smithy.api#required": {}
                }
            }

},
        "traits": {
            "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#BoxBoolean": {
        "type": "boolean"
    },
    "com.amazonaws.licensemanager#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#BoxLong": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#CheckInLicense": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CheckInLicenseResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
```

```
                "target": "com.amazonaws.licensemanager#AuthorizationException"

            },
                {
                    "target": "com.amazonaws.licensemanager#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
                },
                {
                    "target": "com.amazonaws.licensemanager#RateLimitExceededException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ServerInternalException"
                },
                {
                    "target": "com.amazonaws.licensemanager#ValidationException"
                }
            ],
            "traits": {
                "smithy.api#documentation": "<p>Checks in the specified license. Check in a license when it is no longer
in use.</p>"
            }
        },
        "com.amazonaws.licensemanager#CheckInLicenseRequest":
{
            "type": "structure",
            "members": {
                "LicenseConsumptionToken": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License consumption token.</p>",
                        "smithy.api#required": {}
                    }
                },
                "Beneficiary": {
                    "target": "com.amazonaws.licensemanager#String",
                    "traits": {
                        "smithy.api#documentation": "<p>License beneficiary.</p>"
                    }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
```

```
    },
    "com.amazonaws.licensemanager#CheckInLicenseResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicense":
{
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#EntitlementNotAllowedException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
        },
        {
          "target":
"com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license for offline use.</p>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutBorrowLicenseRequest": {
        "type": "structure",
        "members":
{
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The license must
use the borrow consumption configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "Entitlements": {
                "target": "com.amazonaws.licensemanager#EntitlementDataList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements. Partial checkouts are not supported.</p>",
                    "smithy.api#required": {}
                }
            },
            "DigitalSignatureMethod": {
                "target": "com.amazonaws.licensemanager#DigitalSignatureMethod",
                "traits": {
                    "smithy.api#documentation": "<p>Digital signature method. The possible
 value is JSON Web Signature (JWS) algorithm PS384.\n        For more information, see <a
href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>",
                    "smithy.api#required": {}
                }
            },
            "NodeId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Node ID.</p>"
                }
            },
            "CheckoutMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>Information about constraints.</p>"
                }
```

```
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation":
"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutBorrowLicenseResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },
            "EntitlementsAllowed":
{
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
```

```
            "IssuedAt": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout
is issued.</p>"
               }
            },
            "Expiration": {
               "target": "com.amazonaws.licensemanager#ISO8601DateTime",
               "traits": {
                  "smithy.api#documentation": "<p>Date and time at which the license checkout expires.</p>"
               }
            },
            "CheckoutMetadata": {
               "target": "com.amazonaws.licensemanager#MetadataList",
               "traits": {
                  "smithy.api#documentation": "<p>Information about constraints.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#CheckoutLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#CheckoutLicenseResponse"
          },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#NoEntitlementsAllowedException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#RedirectException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target":
 "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Checks out the specified license.</p>\n        <note>\n        <p>If the
 account that created the license is the same that is performing the check out, you must\n        specify the account
 as the beneficiary.</p>\n        </note>"
        }
    },
    "com.amazonaws.licensemanager#CheckoutLicenseRequest": {
        "type": "structure",
        "members": {
            "ProductSKU": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Product
 SKU.</p>",
                    "smithy.api#required": {}
                }
            },
            "CheckoutType": {
                "target": "com.amazonaws.licensemanager#CheckoutType",
                "traits": {
                    "smithy.api#documentation": "<p>Checkout type.</p>",
                    "smithy.api#required": {}
                }
            },
            "KeyFingerprint": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Key fingerprint identifying the license.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "Entitlements": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",

      "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Beneficiary": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License beneficiary.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            }
          },
          "traits": {

         "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutLicenseResponse": {
          "type": "structure",
          "members": {
            "CheckoutType": {
              "target": "com.amazonaws.licensemanager#CheckoutType",
              "traits": {
                "smithy.api#documentation": "<p>Checkout type.</p>"
              }
            },
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
```

```
            },
            "EntitlementsAllowed": {
              "target": "com.amazonaws.licensemanager#EntitlementDataList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed license entitlements.</p>"
              }
            },
             "SignedToken": {
              "target": "com.amazonaws.licensemanager#SignedToken",
              "traits": {
                "smithy.api#documentation": "<p>Signed token.</p>"
              }
            },
            "NodeId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Node ID.</p>"
              }
            },
            "IssuedAt": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license checkout is issued.</p>"
              }
            },
            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and
time at which the license checkout expires.</p>"
              }
            },
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the checkout license.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CheckoutType": {
          "type": "enum",
          "members": {
            "PROVISIONAL": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "PROVISIONAL"
            }
          },
          "PERPETUAL": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PERPETUAL"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ClientRequestToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 36
          }
        }
      },
      "com.amazonaws.licensemanager#ClientToken": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 2048
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#ConflictException": {
        "type": "structure",
        "members": {
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "ConflictException",
            "httpResponseCode":
409
          },
          "smithy.api#documentation": "<p>There was a conflict processing the request. Try your request
again.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 409
```

```
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummary": {
        "type": "structure",
        "members": {
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Resource type of the resource consuming a license.</p>"
            }
          },
          "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
              "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
            }
          }
        },

    "traits": {
            "smithy.api#documentation": "<p>Details about license consumption.</p>"
        }
      },
      "com.amazonaws.licensemanager#ConsumedLicenseSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummary"
        }
      },
      "com.amazonaws.licensemanager#ConsumptionConfiguration": {
        "type": "structure",
        "members": {
          "RenewType": {
            "target": "com.amazonaws.licensemanager#RenewType",
            "traits": {
              "smithy.api#documentation": "<p>Renewal frequency.</p>"
            }
          },
          "ProvisionalConfiguration": {
            "target": "com.amazonaws.licensemanager#ProvisionalConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
             }
          },
          "BorrowConfiguration": {
            "target": "com.amazonaws.licensemanager#BorrowConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Details about a borrow configuration.</p>"
```

```
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about a consumption configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target":
 "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a grant for the specified license. A grant shares the use of
 license\n            entitlements with a specific Amazon Web Services account, an organization, or an\n
 organizational unit (OU). For more
  information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
 licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateGrantRequest": {
```

```
        "type": "structure",
        "members": {
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "GrantName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant name.</p>",
              "smithy.api#required": {}

    }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          },
          "Principals": {
            "target": "com.amazonaws.licensemanager#PrincipalArnList",
            "traits": {
              "smithy.api#documentation": "<p>The grant principals. You can specify one of the following as an
Amazon Resource Name\n        (ARN):</p>\n        <ul>\n        <li>\n        <p>An Amazon Web Services
account, which includes only the account specified.</p>\n        </li>\n        </ul>\n        <ul>\n        <li>\n
    <p>An organizational unit (OU), which includes all accounts in the OU.</p>\n        </li>\n        </ul>\n
<ul>\n
        <li>\n        <p>An organization, which will include all accounts across your organization.</p>\n
</li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region of the grant.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowedOperations": {
            "target": "com.amazonaws.licensemanager#AllowedOperationList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Allowed operations for the grant.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },

      "com.amazonaws.licensemanager#CreateGrantResponse": {
          "type": "structure",
          "members": {
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Grant ARN.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#GrantStatus",
              "traits": {
                "smithy.api#documentation": "<p>Grant status.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersion":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#CreateGrantVersionResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
```

```
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
             },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Creates a new version of the specified grant. For more information,
see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-
licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
          }
        },
        "com.amazonaws.licensemanager#CreateGrantVersionRequest": {
          "type": "structure",
          "members": {
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",

    "smithy.api#required": {}
              }
            },
            "GrantArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

```
            "smithy.api#documentation": "<p>Grant name.</p>"
          }
        },
        "AllowedOperations": {
          "target": "com.amazonaws.licensemanager#AllowedOperationList",
          "traits": {
            "smithy.api#documentation": "<p>Allowed operations for the grant.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#GrantStatus",
          "traits": {
            "smithy.api#documentation": "<p>Grant status.</p>"
          }
        },
        "StatusReason": {
          "target": "com.amazonaws.licensemanager#StatusReasonMessage",
          "traits": {
            "smithy.api#documentation": "<p>Grant status reason.</p>"
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the grant.</p>"
          }
        },
        "Options": {
          "target": "com.amazonaws.licensemanager#Options",
          "traits": {
            "smithy.api#documentation": "<p>The options specified for the grant.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateGrantVersionResponse": {
      "type": "structure",
      "members": {
        "GrantArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Grant ARN.</p>"
          }
        },
        "Status": {
```

```
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>New version of the grant.</p>"
            }
          }
        },
        "traits":
{
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicense": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateLicenseRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateLicenseResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
```

```
      "traits": {
        "smithy.api#documentation": "<p>Creates a license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a license configuration.</p>\n        <p>A license configuration is an abstraction of a customer license agreement that can be\n        consumed and enforced by License Manager. Components include specifications for the license\n        type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n        Dedicated Instance, Dedicated Host, or all of these), license affinity  to host (how long a \n        license must be associated with a host), and the number of licenses purchased and used.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationRequest": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the license configuration.</p>",
```

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                "smithy.api#required": {}
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
             "traits": {
                "smithy.api#documentation": "<p>Dimension used to track the license inventory.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Indicates whether hard or soft license enforcement is used.
Exceeding a hard limit\n        blocks the launch of new instances.</p>"
            }
        },
        "LicenseRules": {
            "target":
 "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules. The syntax is #name=value (for example,
#allowedTenancy=EC2-DedicatedHost). The available rules \n        vary by dimension, as follows.</p>\n
<ul>\n          <li>\n            <p>\n              <code>Cores</code> dimension: <code>allowedTenancy</code> |\n
          <code>licenseAffinityToHost</code> |\n            <code>maximumCores</code> |
<code>minimumCores</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>Instances</code> dimension: <code>allowedTenancy</code> | \n            <code>maximumCores</code> |
<code>minimumCores</code> |\n            <code>maximumSockets</code> | <code>minimumSockets</code> |\n
          <code>maximumVcpus</code> | <code>minimumVcpus</code>\n            </p>\n          </li>\n
<li>\n
  <p>\n            <code>Sockets</code> dimension: <code>allowedTenancy</code> | \n
<code>licenseAffinityToHost</code> |\n            <code>maximumSockets</code> |
<code>minimumSockets</code>\n            </p>\n          </li>\n          <li>\n            <p>\n
<code>vCPUs</code> dimension: <code>allowedTenancy</code> | \n
<code>honorVcpuOptimization</code> | \n            <code>maximumVcpus</code> |
<code>minimumVcpus</code>\n            </p>\n          </li>\n        </ul>\n        <p>The unit for
```

<code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible \n values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and \n <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are \n <code>True</code> and <code>False</code>. "
                }
            },

  "Tags": {
                "target": "com.amazonaws.licensemanager#TagList",
                "traits": {
                    "smithy.api#documentation": " Tags to add to the license configuration. "
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": " When true, disassociates a resource when software is uninstalled. "
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": " Product information. "
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": " Amazon Resource Name (ARN) of the license configuration. "
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResource": {
        "type": "operation",

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        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Creates a new license conversion task.</p>"
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {

                "target": "com.amazonaws.licensemanager#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource you are converting
the license type for.</p>",
                    "smithy.api#required": {}
                 }
            },
            "SourceLicenseContext": {
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting
from. \n\n         For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
```

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the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            },
            "DestinationLicenseContext":
{
                "target": "com.amazonaws.licensemanager#LicenseConversionContext",
                "traits": {
                    "smithy.api#documentation": "<p>Information that identifies the license type you are converting to.
For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the CLI </a> in
the <i>License Manager User Guide</i>.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseConversionTaskForResourceResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTaskId": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",

          "traits": {
                    "smithy.api#documentation": "<p>The ID of the created license type conversion task.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#CreateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
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```
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a report generator.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
          "ReportGeneratorName":
{
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation": "<p>Type of reports to generate. The following report types an be
generated:</p>\n <ul>\n <li>\n <p>License configuration report - Reports the number and
details of consumed licenses for a license configuration.</p>\n </li>\n <li>\n <p>Resource
report - Reports the tracked licenses and resource consumption for a license configuration.</p>\n </li>\n
</ul>",
              "smithy.api#required": {}

        }
          },
```

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            "ReportContext": {
              "target": "com.amazonaws.licensemanager#ReportContext",
              "traits": {
                "smithy.api#documentation": "<p>Defines the type of license configuration the report generator
tracks.</p>",
                "smithy.api#required": {}
              }
            },
            "ReportFrequency": {
              "target": "com.amazonaws.licensemanager#ReportFrequency",
              "traits": {
                "smithy.api#documentation": "<p>Frequency by which reports are generated.  Reports can be
generated daily, monthly, or weekly.</p>",
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientRequestToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique,
 case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "Description": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Description of the report generator.</p>"
              }
            },
            "Tags": {
              "target": "com.amazonaws.licensemanager#TagList",
              "traits": {
                "smithy.api#documentation": "<p>Tags to add to the report generator.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseManagerReportGeneratorResponse": {
          "type": "structure",
          "members": {
            "LicenseManagerReportGeneratorArn":
 {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
```

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                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the new report
generator.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#CreateLicenseRequest": {
        "type": "structure",
        "members": {
          "LicenseName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>License name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product
 name.</p>",
              "smithy.api#required": {}
            }
          },
          "ProductSKU": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Product SKU.</p>",
              "smithy.api#required": {}
            }
          },
          "Issuer": {
            "target": "com.amazonaws.licensemanager#Issuer",
            "traits": {
              "smithy.api#documentation": "<p>License issuer.</p>",
              "smithy.api#required": {}
            }
          },
          "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Home Region for the license.</p>",
              "smithy.api#required": {}
```

```
    }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
            "smithy.api#required": {}
          }
        },
        "Entitlements": {
          "target": "com.amazonaws.licensemanager#EntitlementList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlements.</p>",
            "smithy.api#required": {}
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>",
            "smithy.api#required": {}
          }
        },
        "ConsumptionConfiguration": {
          "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
          "traits": {
            "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseMetadata": {
          "target": "com.amazonaws.licensemanager#MetadataList",
          "traits": {
            "smithy.api#documentation": "<p>Information about the license.</p>"
          }
        },
        "ClientToken": {
          "target": "com.amazonaws.licensemanager#ClientToken",
          "traits": {
            "smithy.api#documentation":
 "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
            "smithy.api#required": {}
          }
        }
      },
```

```
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseResponse": {
    "type": "structure",
    "members": {
      "LicenseArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
        }
      },
      "Status": {
        "target": "com.amazonaws.licensemanager#LicenseStatus",
        "traits": {
          "smithy.api#documentation": "<p>License status.</p>"
        }
      },
      "Version": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>License version.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanager#CreateLicenseVersion": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersionRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanager#CreateLicenseVersionResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#ConflictException"
```

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        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#RedirectException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target": "com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Creates a new version of the specified license.</p>"
      }
    },
    "com.amazonaws.licensemanager#CreateLicenseVersionRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target":
"com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>",
            "smithy.api#required": {}
          }
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>",
            "smithy.api#required": {}
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#Issuer",
```

```
            "traits":
{
                "smithy.api#documentation": "<p>License issuer.</p>",
                "smithy.api#required": {}
            }
        },
        "HomeRegion": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Home Region of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "Validity": {
            "target": "com.amazonaws.licensemanager#DatetimeRange",
            "traits": {
                "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>",
                "smithy.api#required": {}
            }
        },
        "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
                 "smithy.api#documentation": "<p>Information about the license.</p>"
            }
        },
        "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
            "traits": {
                "smithy.api#documentation": "<p>License entitlements.</p>",
                "smithy.api#required": {}
            }
        },
        "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
                "smithy.api#documentation": "<p>Configuration for consumption of the license. Choose a provisional
configuration for workloads\n          running with continuous connectivity. Choose a borrow configuration for
workloads with offline\n          usage.</p>",
                "smithy.api#required": {}
            }
        },

  "Status": {
            "target": "com.amazonaws.licensemanager#LicenseStatus",
            "traits": {
                "smithy.api#documentation": "<p>License status.</p>",
```

```
                "smithy.api#required": {}
              }
            },
            "ClientToken": {
              "target": "com.amazonaws.licensemanager#ClientToken",
              "traits": {
                "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
                "smithy.api#required": {}
              }
            },
            "SourceVersion": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Current version of the license.</p>"
              }
            }
          },
          "traits": {

 "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#CreateLicenseVersionResponse": {
          "type": "structure",
          "members": {
            "LicenseArn": {
              "target": "com.amazonaws.licensemanager#Arn",
              "traits": {
                "smithy.api#documentation": "<p>License ARN.</p>"
              }
            },
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>New version of the license.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseStatus",
              "traits": {
                "smithy.api#documentation": "<p>License status.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output":
```

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{}
        }
      },
      "com.amazonaws.licensemanager#CreateToken": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#CreateTokenRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#CreateTokenResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },

      {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Creates a long-lived token.</p>\n          <p>A refresh token is a JWT token used to get an access token. With an access token,\n          you can call AssumeRoleWithWebIdentity to get role credentials that you can use to \n          call License Manager to manage the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#CreateTokenRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
```

```
            "target": "com.amazonaws.licensemanager#Arn",
            "traits":
{
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the\n          JWT token.</p>",
                "smithy.api#required": {}
            }
        },
        "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the token. \n          License Manager does not check whether the roles are in use.</p>"
            }
        },
        "ExpirationInDays": {
            "target": "com.amazonaws.licensemanager#Integer",
            "traits": {
                "smithy.api#documentation": "<p>Token expiration, in days, counted from token creation. The default is 365 days.</p>"
            }
        },
        "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
                "smithy.api#documentation": "<p>Data specified by the caller to be included in the JWT token. The data is mapped\n          to the amr claim of the JWT token.</p>"
            }
        },
        "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientToken",
            "traits": {
                "smithy.api#documentation": "<p>Idempotency token, valid for 10 minutes.</p>",
                "smithy.api#required": {}
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#CreateTokenResponse": {
      "type": "structure",
      "members": {
        "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
```

```
        "traits": {
            "smithy.api#documentation": "<p>Token ID.</p>"
          }
        },
        "TokenType": {
          "target": "com.amazonaws.licensemanager#TokenType",
          "traits": {
            "smithy.api#documentation": "<p>Token type.</p>"
          }
        },
        "Token": {
          "target": "com.amazonaws.licensemanager#TokenString",
          "traits": {
            "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DateTime": {
      "type": "timestamp"
    },
    "com.amazonaws.licensemanager#DatetimeRange": {
      "type": "structure",
      "members": {
        "Begin": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Start of the time range.</p>",
            "smithy.api#required": {}
          }
        },
        "End": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>End of the time range.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes a time range, in ISO8601-UTC format.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteGrant": {
      "type": "operation",
      "input": {
```

```
            "target": "com.amazonaws.licensemanager#DeleteGrantRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteGrantResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes
the specified grant.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteGrantRequest": {
        "type": "structure",
        "members": {
            "GrantArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>The Status reason for the delete request.</p>"
                }
```

```
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Current version of the
grant.</p>",
                  "smithy.api#required": {}
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteGrantResponse": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Grant ARN.</p>"
               }
            },
            "Status": {
               "target": "com.amazonaws.licensemanager#GrantStatus",
               "traits": {
                  "smithy.api#documentation": "<p>Grant status.</p>"
               }
            },
            "Version": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation":
"<p>Grant version.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#DeleteLicense": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseResponse"
```

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"

},
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#RedirectException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deletes the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#DeleteLicenseConfiguration": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse"
        },

      "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
```

```
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified license configuration.</p>\n        <p>You cannot delete a license configuration that is in use.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationRequest": {
        "type": "structure",
        "members":
{
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>ID of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse"
         },
        "errors": [
            {
```

```
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deletes the specified report generator.</p>\n          <p>This action deletes the report generator, which stops it from generating future reports.\n          The action cannot be reversed. It has no effect on the previous reports from this generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {

  "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#DeleteLicenseManagerReportGeneratorResponse": {
```

```
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "SourceVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Current version of the license.</p>",
            "smithy.api#required":
{}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#DeleteLicenseResponse": {
      "type": "structure",
      "members": {
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseDeletionStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "DeletionDate": {
          "target": "com.amazonaws.licensemanager#ISO8601DateTime",
          "traits": {
            "smithy.api#documentation": "<p>Date when the license is deleted.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#DeleteToken": {
      "type": "operation",
       "input": {
         "target": "com.amazonaws.licensemanager#DeleteTokenRequest"
      },
      "output": {
         "target": "com.amazonaws.licensemanager#DeleteTokenResponse"
      },
      "errors": [
         {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
         },
         {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
         },
         {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
         },
         {
            "target": "com.amazonaws.licensemanager#RedirectException"
         },
         {
            "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
         },
         {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
         },

    {
            "target": "com.amazonaws.licensemanager#ValidationException"
         }
      ],
      "traits": {
         "smithy.api#documentation": "<p>Deletes the specified token. Must be called in the license home
Region.</p>"
      }
    },
    "com.amazonaws.licensemanager#DeleteTokenRequest": {
      "type": "structure",
      "members": {
         "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token ID.</p>",
               "smithy.api#required": {}
            }
         }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#DeleteTokenResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}

        }
      },
      "com.amazonaws.licensemanager#DigitalSignatureMethod": {
        "type": "enum",
        "members": {
          "JWT_PS384": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "JWT_PS384"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#Entitlement": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement resource. Use only
if the unit is None.</p>"
            }
          },
          "MaxCount": {
            "target": "com.amazonaws.licensemanager#Long",
            "traits": {
              "smithy.api#documentation": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
            }
          },
          "Overage": {
```

```
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether overages are allowed.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement unit.</p>",
              "smithy.api#required": {}
            }
          },
          "AllowCheckIn": {
            "target":
"com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
              "smithy.api#documentation": "<p>Indicates whether check-ins are allowed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes a resource entitled for use with a license.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementData": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data name.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement
data value.</p>"
            }
          },
          "Unit": {
            "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
            "traits": {
              "smithy.api#documentation": "<p>Entitlement data unit.</p>",
              "smithy.api#required": {}
            }
          }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>Data associated with an entitlement resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#EntitlementData"
        }
      },
      "com.amazonaws.licensemanager#EntitlementDataUnit": {
        "type": "enum",
        "members": {
          "COUNT": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Count"
            }
          },
          "NONE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "None"
            }
          },
          "SECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Seconds"
            }
          },
          "MICROSECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Microseconds"
            }
          },
          "MILLISECONDS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Milliseconds"
            }
          },
          "BYTES": {
            "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Bytes"
            }
          },
          "KILOBYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes"
            }
          },
          "MEGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes"
            }
          },
          "GIGABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes"
            }
          },
          "TERABYTES": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabytes"
            }
          },
          "BITS":
{
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bits"
            }
          },
          "KILOBITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobits"
            }
          },
          "MEGABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabits"
            }
          },
          "GIGABITS": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Gigabits"
            }
        },
        "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabits"

}
        },
        "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Percent"
            }
        },
        "BYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Bytes/Second"
            }
        },
        "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Kilobytes/Second"
            }
        },
        "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Megabytes/Second"
            }
        },
        "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
             "traits": {
                "smithy.api#enumValue": "Gigabytes/Second"
            }
        },
        "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "Terabytes/Second"
            }
        },
```

```
            "BITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Bits/Second"
              }
            },
            "KILOBITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Kilobits/Second"
              }
            },
            "MEGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue":
"Megabits/Second"
              }
            },
            "GIGABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Gigabits/Second"
              }
            },
            "TERABITS_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Terabits/Second"
              }
            },
            "COUNT_PER_SECOND": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Count/Second"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#EntitlementList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Entitlement"
          }
        },
        "com.amazonaws.licensemanager#EntitlementNotAllowedException":
{
          "type": "structure",
```

```
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>The entitlement is not allowed.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#EntitlementUnit": {
      "type": "enum",
      "members": {
        "COUNT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count"
          }
        },
        "NONE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "None"
          }
        },
        "SECONDS":
{
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Seconds"
          }
        },
        "MICROSECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Microseconds"
          }
        },
        "MILLISECONDS": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Milliseconds"
          }
        },
        "BYTES": {
          "target": "smithy.api#Unit",
          "traits": {
```

```
        "smithy.api#enumValue": "Bytes"
      }
    },
    "KILOBYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Kilobytes"
       }
    },
    "MEGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabytes"
      }
    },
    "GIGABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Gigabytes"
      }
    },
    "TERABYTES": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Terabytes"
      }
    },
    "BITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Bits"
      }
    },
    "KILOBITS": {
      "target": "smithy.api#Unit",
      "traits": {

       "smithy.api#enumValue": "Kilobits"
      }
    },
    "MEGABITS": {
      "target": "smithy.api#Unit",
      "traits": {
        "smithy.api#enumValue": "Megabits"
      }
    },
    "GIGABITS": {
      "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue": "Gigabits"
            }
          },
          "TERABITS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Terabits"
            }
          },
          "PERCENT": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Percent"
            }
          },
          "BYTES_PER_SECOND": {
            "target":
"smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Bytes/Second"
            }
          },
          "KILOBYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Kilobytes/Second"
            }
          },
          "MEGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Megabytes/Second"
            }
          },
          "GIGABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "Gigabytes/Second"
            }
          },
          "TERABYTES_PER_SECOND": {
            "target": "smithy.api#Unit",
            "traits": {

"smithy.api#enumValue": "Terabytes/Second"
            }
          },
```

```
        "BITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Bits/Second"
          }
        },
        "KILOBITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Kilobits/Second"
          }
        },
        "MEGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Megabits/Second"
          }
        },
        "GIGABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Gigabits/Second"
          }
        },

     "TERABITS_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Terabits/Second"
          }
        },
        "COUNT_PER_SECOND": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "Count/Second"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsage": {
      "type": "structure",
      "members": {
        "Name": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage name.</p>",
            "smithy.api#required": {}
          }
```

```
        },
        "ConsumedValue": {
          "target": "com.amazonaws.licensemanager#String",

        "traits": {
            "smithy.api#documentation": "<p>Resource usage consumed.</p>",
            "smithy.api#required": {}
          }
        },
        "MaxCount": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Maximum entitlement usage count.</p>"
          }
        },
        "Unit": {
          "target": "com.amazonaws.licensemanager#EntitlementDataUnit",
          "traits": {
            "smithy.api#documentation": "<p>Entitlement usage unit.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Usage associated with an entitlement resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#EntitlementUsageList":
{
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#EntitlementUsage"
      }
    },
    "com.amazonaws.licensemanager#ExtendLicenseConsumption": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Extends the expiration date for license consumption.</p>"
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionRequest": {
         "type": "structure",
         "members": {
            "LicenseConsumptionToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>License consumption token.</p>",
                  "smithy.api#required": {}

          }
            },
            "DryRun": {
               "target": "com.amazonaws.licensemanager#Boolean",
               "traits": {
                  "smithy.api#default": false,
                  "smithy.api#documentation": "<p>Checks whether you have the required permissions for the action,
without actually making the request. Provides an error response if you do not have the required permissions.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#input": {}
         }
      },
      "com.amazonaws.licensemanager#ExtendLicenseConsumptionResponse": {
         "type": "structure",
         "members": {
```

```
            "LicenseConsumptionToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>License consumption token.</p>"
              }
            },

            "Expiration": {
              "target": "com.amazonaws.licensemanager#ISO8601DateTime",
              "traits": {
                "smithy.api#documentation": "<p>Date and time at which the license consumption expires.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#FailedDependencyException": {
          "type": "structure",
          "members": {
            "Message": {
              "target": "com.amazonaws.licensemanager#Message"
            },
            "ErrorCode": {
              "target": "com.amazonaws.licensemanager#String"
            }
          },
          "traits": {
            "aws.protocols#awsQueryError": {
              "code": "FailedDependency",
              "httpResponseCode": 424
            },
            "smithy.api#documentation":
"<p>A dependency required to run the API is missing.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 424
          }
        },
        "com.amazonaws.licensemanager#Filter": {
          "type": "structure",
          "members": {
            "Name": {
              "target": "com.amazonaws.licensemanager#FilterName",
              "traits": {
                "smithy.api#documentation": "<p>Name of the filter. Filter names are case-sensitive.</p>"
              }
            },
```

```
            "Values": {
                "target": "com.amazonaws.licensemanager#FilterValues",
                "traits": {
                    "smithy.api#documentation": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter
 name and value pair that is used to return more specific results from a\n          describe operation. Filters can be used to match a set of resources by specific criteria,\n          such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanager#FilterLimitExceededException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "FilterLimitExceeded",
                "httpResponseCode": 400
            },
            "smithy.api#documentation": "<p>The request uses too many filters or too many filter values.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#FilterList": {
        "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#Filter"
        }
    },
    "com.amazonaws.licensemanager#FilterName": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValue": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#FilterValues": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#FilterValue",
            "traits": {
```

```
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#Filters": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Filter",
            "traits": {
                "smithy.api#xmlName": "item"
            }
        }
    },
    "com.amazonaws.licensemanager#GetAccessToken": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetAccessTokenResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets a temporary access token to use with
AssumeRoleWithWebIdentity. Access
 tokens\n          are valid for one hour.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetAccessTokenRequest": {
        "type": "structure",
        "members": {
            "Token": {
```

```
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Refresh token, encoded as a JWT token.</p>",
              "smithy.api#required": {}
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
            "traits": {
              "smithy.api#documentation": "<p>Token properties to validate against those present in the JWT token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetAccessTokenResponse": {
        "type": "structure",
        "members": {
          "AccessToken": {
            "target": "com.amazonaws.licensemanager#TokenString",
            "traits": {
              "smithy.api#documentation": "<p>Temporary access token.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
```

```
    },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified grant.</p>"
    }
},
"com.amazonaws.licensemanager#GetGrantRequest": {
    "type": "structure",
    "members": {
        "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
             "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                "smithy.api#required": {}
            }
        },
        "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#GetGrantResponse": {
    "type": "structure",
    "members": {
        "Grant": {
            "target": "com.amazonaws.licensemanager#Grant",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Grant details.</p>"
          }
        }
    },
    "traits": {

"smithy.api#output": {}
    }
},
"com.amazonaws.licensemanager#GetLicense": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"

 },
        {
            "target": "com.amazonaws.licensemanager#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Gets detailed information about the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#GetLicenseConfiguration": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseConfigurationRequest"
    },
    "output": {
```

```
            "target": "com.amazonaws.licensemanager#GetLicenseConfigurationResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Gets detailed information about the specified license
configuration.</p>"
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationRequest": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits":
 {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConfigurationResponse": {
          "type": "structure",
          "members": {
            "LicenseConfigurationId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Unique ID for the license configuration.</p>"
```

```
    }
  },
  "LicenseConfigurationArn": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
    }
  },
  "Name": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Name of the license configuration.</p>"
     }
  },
  "Description": {
    "target": "com.amazonaws.licensemanager#String",
    "traits": {
      "smithy.api#documentation": "<p>Description of the license configuration.</p>"
    }
  },
  "LicenseCountingType": {
    "target": "com.amazonaws.licensemanager#LicenseCountingType",
    "traits": {
      "smithy.api#documentation": "<p>Dimension for which the licenses are counted.</p>"
    }
  },
  "LicenseRules": {
    "target": "com.amazonaws.licensemanager#StringList",
    "traits": {
      "smithy.api#documentation": "<p>License rules.</p>"
    }
  },
  "LicenseCount": {
    "target": "com.amazonaws.licensemanager#BoxLong",

   "traits": {
      "smithy.api#documentation": "<p>Number of available licenses.</p>"
    }
  },
  "LicenseCountHardLimit": {
    "target": "com.amazonaws.licensemanager#BoxBoolean",
    "traits": {
      "smithy.api#documentation": "<p>Sets the number of available licenses as a hard limit.</p>"
    }
  },
  "ConsumedLicenses": {
    "target": "com.amazonaws.licensemanager#BoxLong",
    "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses assigned to resources.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License configuration status.</p>"
          }

    },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the owner of the license configuration.</p>"
          }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the licenses consumed by resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries of the managed resources.</p>"
          }
        },
        "Tags": {
          "target": "com.amazonaws.licensemanager#TagList",
           "traits": {
            "smithy.api#documentation": "<p>Tags for the license configuration.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {
          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        },
        "DisassociateWhenNotFound": {
          "target": "com.amazonaws.licensemanager#BoxBoolean",
```

```
            "traits": {
              "smithy.api#documentation": "<p>When
true, disassociates a resource when software is uninstalled.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTask": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {

 "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets information about the specified license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseConversionTaskRequest": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>ID of the license type conversion task to retrieve information
on.</p>",
```

```
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#GetLicenseConversionTaskResponse": {
          "type": "structure",
          "members": {
            "LicenseConversionTaskId": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
              "traits": {
                "smithy.api#documentation": "<p>ID of the license type conversion task.</p>"
              }
            },
            "ResourceArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>"
              }
            },
            "SourceLicenseContext": {
              "target": "com.amazonaws.licensemanager#LicenseConversionContext",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted from.</p>"
              }
            },
            "DestinationLicenseContext": {
              "target": "com.amazonaws.licensemanager#LicenseConversionContext",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license type converted to.</p>"
              }
            },
            "StatusMessage": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
              }
            },
            "Status": {
              "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
              "traits": {
                "smithy.api#documentation": "<p>Status of the license type conversion task.</p>"
              }
```

```
            },

  "StartTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was started .</p>"
                }
            },
            "LicenseConversionTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Amount of time to complete the license type conversion.</p>"
                }
            },
            "EndTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time at which the license type conversion task was
completed.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGenerator":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"

            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Gets information about the specified report generator.</p>"
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>",
                    "smithy.api#required":
{}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#GetLicenseManagerReportGeneratorResponse": {
        "type": "structure",
        "members": {
            "ReportGenerator": {
                "target": "com.amazonaws.licensemanager#ReportGenerator",
                "traits": {
                    "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanager#GetLicenseRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {

"smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
            "smithy.api#required": {}
          }
        },
        "Version": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License version.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#GetLicenseResponse": {
      "type": "structure",
      "members": {
        "License": {
          "target": "com.amazonaws.licensemanager#License",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },

  "com.amazonaws.licensemanager#GetLicenseUsage": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#GetLicenseUsageResponse"
      },
      "errors": [
        {
```

```
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {

  "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets detailed information about the usage of the specified license.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageRequest": {
        "type": "structure",
        "members": {
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetLicenseUsageResponse": {
        "type": "structure",
        "members": {
          "LicenseUsage": {
            "target":
"com.amazonaws.licensemanager#LicenseUsage",
            "traits": {
              "smithy.api#documentation": "<p>License usage details.</p>"
            }
          }
```

```
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#GetServiceSettingsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
           },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Gets the License Manager settings for the current Region.</p>"
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "S3BucketArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Regional S3 bucket path for storing reports, license trail event data,
discovery data,\n         and so on.</p>"
```

```
 }
            },
            "SnsTopicArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>SNS topic configured to receive notifications from License
Manager.</p>"
               }
            },
            "OrganizationConfiguration": {
               "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether Organizations is integrated with License
Manager for\n         cross-account discovery.</p>"
               }
            },
            "EnableCrossAccountsDiscovery": {
               "target": "com.amazonaws.licensemanager#BoxBoolean",
               "traits": {
                  "smithy.api#documentation": "<p>Indicates whether cross-account discovery is enabled.</p>"
               }

         },
            "LicenseManagerResourceShareArn": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource share. The License
Manager management account \n         provides member accounts with access to this share.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#Grant": {
         "type": "structure",
         "members": {
            "GrantArn": {
               "target": "com.amazonaws.licensemanager#Arn",
               "traits": {
                  "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
                  "smithy.api#required": {}
               }
            },
            "GrantName": {
```

```
 "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Grant name.</p>",
                    "smithy.api#required": {}
                }
            },
            "ParentArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>Parent ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>License ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "GranteePrincipalArn": {
                "target": "com.amazonaws.licensemanager#Arn",
                "traits": {

"smithy.api#documentation": "<p>The grantee principal ARN.</p>",
                    "smithy.api#required": {}
                }
            },
            "HomeRegion": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Home Region of the grant.</p>",
                    "smithy.api#required": {}
                }
            },
            "GrantStatus": {
                "target": "com.amazonaws.licensemanager#GrantStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status.</p>",
                    "smithy.api#required": {}
                }
            },
            "StatusReason": {
                "target": "com.amazonaws.licensemanager#StatusReasonMessage",
                "traits": {
                    "smithy.api#documentation": "<p>Grant status reason.</p>"
                 }
            },
```

```
            "Version": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Grant version.</p>",
                "smithy.api#required": {}
              }
            },
            "GrantedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Granted operations.</p>",
                "smithy.api#required": {}
              }
            },
            "Options": {
              "target": "com.amazonaws.licensemanager#Options",
              "traits": {
                "smithy.api#documentation": "<p>The options specified for the grant.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation":
"<p>Describes a grant.</p>"
          }
        },
        "com.amazonaws.licensemanager#GrantList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#Grant"
          }
        },
        "com.amazonaws.licensemanager#GrantStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_ACCEPT"
              }
            },
            "REJECTED": {
```

```
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"

          }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_DELETE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#GrantedLicense": {
        "type": "structure",
        "members": {
```

```
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
          }
        },
        "LicenseName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License name.</p>"
          }

    },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>Granted license issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Home Region of the granted license.</p>"

         }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>Granted license status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the granted license is valid, in
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ISO8601-UTC format.</p>"
            }
          },
          "Beneficiary": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Granted license beneficiary.</p>"
            }
          },
          "Entitlements": {
            "target": "com.amazonaws.licensemanager#EntitlementList",
             "traits": {
              "smithy.api#documentation": "<p>License entitlements.</p>"
            }
          },
          "ConsumptionConfiguration": {
            "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
            "traits": {
              "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
            }
          },
          "LicenseMetadata": {
            "target": "com.amazonaws.licensemanager#MetadataList",
            "traits": {
              "smithy.api#documentation": "<p>Granted license metadata.</p>"
            }
          },
          "CreateTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Creation time of the granted license.</p>"

  }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Version of the granted license.</p>"
            }
          },
          "ReceivedMetadata": {
            "target": "com.amazonaws.licensemanager#ReceivedMetadata",
            "traits": {
              "smithy.api#documentation": "<p>Granted license received metadata.</p>"
            }
          }
        },
        "traits": {
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            "smithy.api#documentation": "<p>Describes a license that is granted to a grantee.</p>"
        }
    },
    "com.amazonaws.licensemanager#GrantedLicenseList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#GrantedLicense"
        }
    },
    "com.amazonaws.licensemanager#ISO8601DateTime":
{
        "type": "string",
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#pattern": "^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-
1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
        }
    },
    "com.amazonaws.licensemanager#Integer": {
        "type": "integer"
    },
    "com.amazonaws.licensemanager#InvalidParameterValueException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "aws.protocols#awsQueryError": {
                "code": "InvalidParameterValueProvided",
                "httpResponseCode": 400
            },
            "smithy.api#documentation":
"<p>One or more parameter values are not valid.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#InvalidResourceStateException": {
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
```

```
        },
        "traits": {
          "aws.protocols#awsQueryError": {
            "code": "InvalidResourceState",
            "httpResponseCode": 400
          },
          "smithy.api#documentation": "<p>License Manager cannot allocate a license to a resource because of its
state. </p>\n         <p>For example, you cannot allocate a license to an instance in the process of shutting\n
down.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },

      "com.amazonaws.licensemanager#InventoryFilter": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Condition": {
            "target": "com.amazonaws.licensemanager#InventoryFilterCondition",
            "traits": {
              "smithy.api#documentation": "<p>Condition of the filter.</p>",
              "smithy.api#required": {}
            }
          },
          "Value": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Value of the filter.</p>"
            }
          }

    },
        "traits": {
          "smithy.api#documentation": "<p>An inventory filter.</p>"
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterCondition": {
        "type": "enum",
        "members": {
          "EQUALS": {
            "target": "smithy.api#Unit",
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            "traits": {
              "smithy.api#enumValue": "EQUALS"
            }
          },
          "NOT_EQUALS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "NOT_EQUALS"
            }
          },
          "BEGINS_WITH": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "BEGINS_WITH"
            }
          },
          "CONTAINS": {
            "target": "smithy.api#Unit",
            "traits": {
               "smithy.api#enumValue": "CONTAINS"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#InventoryFilterList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#InventoryFilter"
        }
      },
      "com.amazonaws.licensemanager#Issuer": {
        "type": "structure",
        "members": {
          "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Issuer name.</p>",
              "smithy.api#required": {}
            }
          },
          "SignKey": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS
key must have a key usage
 of sign and verify, \n         and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
            }
          }
```

```
    },
    "traits": {
      "smithy.api#documentation": "<p>Details about the issuer of a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#IssuerDetails": {
    "type": "structure",
    "members": {
      "Name": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Issuer name.</p>"
        }
      },
      "SignKey": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, \n and support the RSASSA-PSS SHA-256 signing algorithm.</p>"
        }
      },
      "KeyFingerprint": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Issuer key fingerprint.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#documentation": "<p>Details associated with the issuer of a license.</p>"
    }
  },
  "com.amazonaws.licensemanager#License": {
    "type": "structure",
    "members": {
      "LicenseArn": {
        "target": "com.amazonaws.licensemanager#Arn",
        "traits": {
          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
        }
      },
      "LicenseName": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {

       "smithy.api#documentation": "<p>License name.</p>"
        }
```

```
        },
        "ProductName": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product name.</p>"
          }
        },
        "ProductSKU": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Product SKU.</p>"
          }
        },
        "Issuer": {
          "target": "com.amazonaws.licensemanager#IssuerDetails",
          "traits": {
            "smithy.api#documentation": "<p>License issuer.</p>"
          }
        },
        "HomeRegion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {

        "smithy.api#documentation": "<p>Home Region of the license.</p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#LicenseStatus",
          "traits": {
            "smithy.api#documentation": "<p>License status.</p>"
          }
        },
        "Validity": {
          "target": "com.amazonaws.licensemanager#DatetimeRange",
          "traits": {
            "smithy.api#documentation": "<p>Date and time range during which the license is valid, in ISO8601-
UTC format.</p>"
          }
        },
        "Beneficiary": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>License beneficiary.</p>"
          }
        },
        "Entitlements": {
```

```
    "target": "com.amazonaws.licensemanager#EntitlementList",
                "traits": {
                    "smithy.api#documentation": "<p>License entitlements.</p>"
                }
            },
            "ConsumptionConfiguration": {
                "target": "com.amazonaws.licensemanager#ConsumptionConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Configuration for consumption of the license.</p>"
                }
            },
            "LicenseMetadata": {
                "target": "com.amazonaws.licensemanager#MetadataList",
                "traits": {
                    "smithy.api#documentation": "<p>License metadata.</p>"
                }
            },
            "CreateTime": {
                "target": "com.amazonaws.licensemanager#ISO8601DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>License
creation time.</p>"
                }
            },
            "Version": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>License version.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Software license that is managed in License Manager.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfiguration": {
        "type": "structure",
        "members": {
            "LicenseConfigurationId": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Unique ID of the license configuration.</p>"
                }
            },
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration.</p>"
```

```
            }
        },
        "Name": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Name of the license configuration.</p>"
            }
        },
        "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Description of the license configuration.</p>"
            }
        },
        "LicenseCountingType": {
            "target": "com.amazonaws.licensemanager#LicenseCountingType",
            "traits": {
                "smithy.api#documentation": "<p>Dimension to use to track the license inventory.</p>"
             }
        },
        "LicenseRules": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
                "smithy.api#documentation": "<p>License rules.</p>"
            }
        },
        "LicenseCount": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>Number of licenses managed by the license configuration.</p>"
            }
        },
        "LicenseCountHardLimit": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
            "traits": {
                "smithy.api#documentation": "<p>Number of available licenses as a hard limit.</p>"
            }
        },
        "DisassociateWhenNotFound": {
            "target": "com.amazonaws.licensemanager#BoxBoolean",
             "traits": {
                "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
            }
        },
        "ConsumedLicenses": {
            "target": "com.amazonaws.licensemanager#BoxLong",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Number of licenses consumed. </p>"
          }
        },
        "Status": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Status of the license configuration.</p>"
          }
        },
        "OwnerAccountId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Account ID of the license configuration's owner.</p>"

        }
        },
        "ConsumedLicenseSummaryList": {
          "target": "com.amazonaws.licensemanager#ConsumedLicenseSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for licenses consumed by various resources.</p>"
          }
        },
        "ManagedResourceSummaryList": {
          "target": "com.amazonaws.licensemanager#ManagedResourceSummaryList",
          "traits": {
            "smithy.api#documentation": "<p>Summaries for managed resources.</p>"
          }
        },
        "ProductInformationList": {
          "target": "com.amazonaws.licensemanager#ProductInformationList",
          "traits": {
            "smithy.api#documentation": "<p>Product information.</p>"
          }
        },
        "AutomatedDiscoveryInformation": {

          "target": "com.amazonaws.licensemanager#AutomatedDiscoveryInformation",
          "traits": {
            "smithy.api#documentation": "<p>Automated discovery information.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>A license configuration is an abstraction of a customer license agreement that can be\n consumed and enforced by License Manager. Components include specifications for the license\n type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, \n Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM\n must be associated with a host), and the number of licenses purchased and used.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociation": {
        "type": "structure",
        "members": {
          "ResourceArn":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
              "smithy.api#documentation": "<p>Type of server resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the resource
consuming licenses.</p>"
            }
          },
          "AssociationTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

    "smithy.api#documentation": "<p>Time when the license configuration was associated with the resource.</p>"
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-
account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes an association with a license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationAssociations": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociation"
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        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationStatus": {
        "type": "enum",
        "members":
{
          "AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#LicenseConfigurationUsage": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
          },
          "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits":
{
              "smithy.api#documentation": "<p>Type of resource.</p>"
            }
          },
          "ResourceStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Status of the resource.</p>"
            }
          },
          "ResourceOwnerId": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
            }
          },
```

```
            "AssociationTime": {
                "target": "com.amazonaws.licensemanager#DateTime",
                "traits": {
                    "smithy.api#documentation": "<p>Time when the license configuration was initially associated with the resource.</p>"
                }
            },

        "ConsumedLicenses": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of licenses consumed by the resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about the usage of a resource associated with a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurationUsageList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationUsage"
        }
    },
    "com.amazonaws.licensemanager#LicenseConfigurations": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#LicenseConfiguration"
        }
    },
    "com.amazonaws.licensemanager#LicenseConversionContext": {

  "type": "structure",
        "members": {
            "UsageOperation": {
                "target": "com.amazonaws.licensemanager#UsageOperation",
                "traits": {
                    "smithy.api#documentation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from.  For more information about which platforms correspond to which usage operation values see <a href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample data: usage operation by platform\n      </a>\n        </p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTask": {
        "type": "structure",
        "members": {
          "LicenseConversionTaskId": {

       "target": "com.amazonaws.licensemanager#LicenseConversionTaskId",
            "traits": {
              "smithy.api#documentation": "<p>The ID of the license type conversion task.</p>"
            }
          },
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource associated
with the license type\n         conversion task.</p>"
            }
          },
          "SourceLicenseContext": {
            "target": "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
from.</p>"
            }
          },
          "DestinationLicenseContext": {
            "target":
 "com.amazonaws.licensemanager#LicenseConversionContext",
            "traits": {
              "smithy.api#documentation": "<p>Information about the license type this conversion task converted
to.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTaskStatus",
            "traits": {
              "smithy.api#documentation": "<p>The status of the conversion task.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>The status message for the conversion task.</p>"
            }
          },
          "StartTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
```

```
            "traits": {
              "smithy.api#documentation":
 "<p>The time the conversion task was started at.</p>"
            }
          },
          "LicenseConversionTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the usage operation value of the resource was
changed.</p>"
            }
          },
          "EndTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {
              "smithy.api#documentation": "<p>The time the conversion task was completed.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Information about a license type conversion task.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskId": {
        "type": "string",
        "traits": {

         "smithy.api#length": {
            "min": 0,
            "max": 50
          },
          "smithy.api#pattern": "^lct-[a-zA-Z0-9]*$"
        }
      },
      "com.amazonaws.licensemanager#LicenseConversionTaskStatus": {
        "type": "enum",
        "members": {
          "IN_PROGRESS": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "IN_PROGRESS"
            }
          },
          "SUCCEEDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUCCEEDED"
            }
```

```
            },
            "FAILED": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "FAILED"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseConversionTasks":
{
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#LicenseConversionTask"
         }
      },
      "com.amazonaws.licensemanager#LicenseCountingType": {
         "type": "enum",
         "members": {
            "VCPU": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "vCPU"
               }
            },
            "INSTANCE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Instance"
               }
            },
            "CORE": {
               "target": "smithy.api#Unit",
               "traits": {
                  "smithy.api#enumValue": "Core"
               }
            },
            "SOCKET": {
               "target": "smithy.api#Unit",
                "traits": {
                  "smithy.api#enumValue": "Socket"
               }
            }
         }
      },
      "com.amazonaws.licensemanager#LicenseDeletionStatus": {
         "type": "enum",
         "members": {
```

```
        "PENDING_DELETE": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "PENDING_DELETE"
            }
        },
        "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
                "smithy.api#enumValue": "DELETED"
            }
        }
    }
},
"com.amazonaws.licensemanager#LicenseList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#License"
    }
},
"com.amazonaws.licensemanager#LicenseOperationFailure": {

    "type": "structure",
    "members": {
        "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
            }
        },
        "ResourceType": {
            "target": "com.amazonaws.licensemanager#ResourceType",
            "traits": {
                "smithy.api#documentation": "<p>Resource type.</p>"
            }
        },
        "ErrorMessage": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Error message.</p>"
            }
        },
        "FailureTime": {
            "target": "com.amazonaws.licensemanager#DateTime",
            "traits": {

"smithy.api#documentation": "<p>Failure time.</p>"
            }
```

```
            },
            "OperationName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Name of the operation.</p>"
              }
            },
            "ResourceOwnerId": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>ID of the Amazon Web Services account that owns the
resource.</p>"
              }
            },
            "OperationRequestedBy": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>The requester is \"License Manager Automated Discovery\".</p>"
              }
            },
            "MetadataList": {

              "target": "com.amazonaws.licensemanager#MetadataList",
              "traits": {
                "smithy.api#documentation": "<p>Reserved.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Describes the failure of a license operation.</p>"
          }
        },
        "com.amazonaws.licensemanager#LicenseOperationFailureList": {
          "type": "list",
          "member": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailure"
          }
        },
        "com.amazonaws.licensemanager#LicenseSpecification": {
          "type": "structure",
          "members": {
            "LicenseConfigurationArn": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
```

```
            "smithy.api#required": {}
            }
          },
          "AmiAssociationScope": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details for associating a license configuration with a resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#LicenseSpecifications": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#LicenseSpecification"
        }
      },
      "com.amazonaws.licensemanager#LicenseStatus": {
        "type": "enum",
        "members": {
          "AVAILABLE": {
            "target": "smithy.api#Unit",

          "traits": {
              "smithy.api#enumValue": "AVAILABLE"
            }
          },
          "PENDING_AVAILABLE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "PENDING_AVAILABLE"
            }
          },
          "DEACTIVATED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DEACTIVATED"
            }
          },
          "SUSPENDED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "SUSPENDED"
            }
```

```
        },
        "EXPIRED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "EXPIRED"
          }
        },

      "PENDING_DELETE": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "PENDING_DELETE"
          }
        },
        "DELETED": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "DELETED"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#LicenseUsage": {
      "type": "structure",
      "members": {
        "EntitlementUsages": {
          "target": "com.amazonaws.licensemanager#EntitlementUsageList",
          "traits": {
            "smithy.api#documentation": "<p>License entitlement usages.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Describes the entitlement usage associated with a license.</p>"

      }
    },
    "com.amazonaws.licensemanager#LicenseUsageException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "LicenseUsageFailure",
          "httpResponseCode": 412
```

```
            },
            "smithy.api#documentation": "<p>You do not have enough licenses available to support a new resource
launch.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 412
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfiguration": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest"
         },
         "output": {

      "target": "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists the resource associations for the
 specified license configuration.</p>\n         <p>Resource associations need not consume licenses from a license
configuration. \n         For example, an AMI or a stopped instance might not consume a license (depending on \n
the license rules).</p>"
         }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationRequest": {
         "type": "structure",
         "members": {
            "LicenseConfigurationArn": {
               "target": "com.amazonaws.licensemanager#String",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results
to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListAssociationsForLicenseConfigurationResponse": {
        "type": "structure",
        "members": {
          "LicenseConfigurationAssociations": {
            "target": "com.amazonaws.licensemanager#LicenseConfigurationAssociations",
            "traits": {
              "smithy.api#documentation": "<p>Information about the associations for the license
configuration.</p>"
            }
          },
          "NextToken": {

"target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListDistributedGrants": {
        "type": "operation",
        "input": {
```

```
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListDistributedGrantsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the grants distributed for the specified license.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListDistributedGrantsRequest": {
        "type": "structure",
        "members": {
            "GrantArns": {
                "target": "com.amazonaws.licensemanager#ArnList",
                "traits": {

            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n            <li>\n                <p>\n                    <code>LicenseArn</code>\n                </p>\n
        </li>\n            <li>\n                <p>\n                    <code>GrantStatus</code>\n                </p>\n            </li>\n
```

\n \n <code>GranteePrincipalARN</code>\n \n \n
\n \n <code>ProductSKU</code>\n \n \n \n
\n <code>LicenseIssuerName</code>\n
\n \n "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanager#MaxSize100",
"traits": {
"smithy.api#documentation": " Maximum number of results to return in a single call. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanager#ListDistributedGrantsResponse": {
"type": "structure",
"members": {
"Grants": {
"target": "com.amazonaws.licensemanager#GrantList",

"traits": {
"smithy.api#documentation": " Distributed grant details. "
}
},
"NextToken": {
"target": "com.amazonaws.licensemanager#String",
"traits": {
"smithy.api#documentation": " Token for the next set of results. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest"

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        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse"
        },
        "errors": [
            {

"target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configuration operations that failed.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                 "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name of the license configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
```

```
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListFailuresForLicenseConfigurationOperationsResponse":
{
        "type": "structure",
        "members": {
          "LicenseOperationFailureList": {
            "target": "com.amazonaws.licensemanager#LicenseOperationFailureList",
            "traits": {
              "smithy.api#documentation": "<p>License configuration operations that failed.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseConfigurations": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest"
        },

    "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
```

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            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license configurations
 for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConfigurationsRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArns": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the license
configurations.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next
 set of results.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n            <li>\n                <p>\n
<code>licenseCountingType</code> - The dimension for which licenses are counted.\n                Possible values are
<code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.\n                Logical
operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license
enforcement is used. \n                Logical operators are <code>EQUALS</code> |
<code>NOT_EQUALS</code>.</p>\n
    </li>\n            <li>\n                <p>\n                <code>usagelimitExceeded</code> - A Boolean value that
indicates whether the available licenses have been exceeded. \n                Logical operators are
```

```
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n            </li>\n        </ul>"
                }
              }
            },
            "traits": {
              "smithy.api#input": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConfigurationsResponse": {
            "type": "structure",
            "members": {
              "LicenseConfigurations": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurations",
                "traits": {
                  "smithy.api#documentation": "<p>Information about the license configurations.</p>"
                }
              },
              "NextToken": {
                "target": "com.amazonaws.licensemanager#String",

               "traits": {
                      "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
              }
            },
            "traits": {
              "smithy.api#output": {}
            }
          },
          "com.amazonaws.licensemanager#ListLicenseConversionTasks": {
            "type": "operation",
            "input": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest"
            },
            "output": {
              "target": "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse"
            },
            "errors": [
              {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
              },
              {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
              },
              {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
               },
              {
```

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                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the license type conversion tasks for your account.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksRequest": {
        "type": "structure",
        "members": {
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanager#BoxInteger",
                "traits": {

   "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanager#Filters",
                "traits": {
                    "smithy.api#documentation": "<p>\n         Filters to scope the results. Valid filters are
<code>ResourceArns</code> and <code>Status</code>.\n      </p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseConversionTasksResponse": {
        "type": "structure",
        "members": {
            "LicenseConversionTasks": {
                "target": "com.amazonaws.licensemanager#LicenseConversionTasks",
                "traits": {
                    "smithy.api#documentation": "<p>Information about the license configuration tasks for your
 account.</p>"
                }
            },
```

```
            "NextToken": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Token for the next set of results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#ListLicenseManagerReportGenerators": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target":
"com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the report generators for your account.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsRequest":
 {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are supported:
</p>\n       <ul>\n          <li>\n             <p>\n                <code>LicenseConfigurationArn</code>\n
</p>\n          </li>\n       </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits":
 {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseManagerReportGeneratorsResponse": {
        "type": "structure",
        "members": {
          "ReportGenerators": {
            "target": "com.amazonaws.licensemanager#ReportGeneratorList",
            "traits": {
              "smithy.api#documentation": "<p>A report generator that creates periodic reports about your license
configurations.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
```

```
        }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Describes the license configurations for the specified resource.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of a resource that has an
associated license configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
```

```
            "traits": {

      "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseSpecificationsForResourceResponse": {
        "type": "structure",
        "members": {
          "LicenseSpecifications": {
            "target": "com.amazonaws.licensemanager#LicenseSpecifications",
            "traits": {
              "smithy.api#documentation": "<p>License configurations associated with a resource.</p>"
            }
          },
          "NextToken": {
             "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenseVersions": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicenseVersionsResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
```

```
        {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists all versions of the specified license.</p>"
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsRequest": {
    "type": "structure",
    "members": {
        "LicenseArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>",
                "smithy.api#required": {}
            }
        },
        "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanager#ListLicenseVersionsResponse": {
    "type": "structure",
    "members": {
        "Licenses": {
```

```
            "target": "com.amazonaws.licensemanager#LicenseList",
            "traits": {
              "smithy.api#documentation": "<p>License details.</p>"
            }
          },

"NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListLicenses": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListLicensesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListLicensesResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
           },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses for your account.</p>"
        }
```

```
    },
    "com.amazonaws.licensemanager#ListLicensesRequest": {
      "type": "structure",
      "members": {
        "LicenseArns": {
          "target": "com.amazonaws.licensemanager#ArnList",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
          }
        },

       "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
      </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n          </li>\n
   <li>\n            <p>\n              <code>Fingerprint</code>\n            </p>\n          </li>\n          <li>\n
<p>\n              <code>Status</code>\n            </p>\n          </li>\n        </ul>"
            }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token
 for the next set of results.</p>"
            }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListLicensesResponse": {
      "type": "structure",
      "members": {
        "Licenses": {
          "target": "com.amazonaws.licensemanager#LicenseList",
          "traits": {
            "smithy.api#documentation": "<p>License details.</p>"
            }
        },
```

```
            "NextToken": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {

   "smithy.api#documentation": "<p>Token for the next set of results.</p>"
               }
            }
         },
         "traits": {
            "smithy.api#output": {}
         }
      },
      "com.amazonaws.licensemanager#ListReceivedGrants": {
         "type": "operation",
         "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsRequest"
         },
         "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedGrantsResponse"
         },
         "errors": [
            {
               "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
               "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
               "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
               "target": "com.amazonaws.licensemanager#RateLimitExceededException"
             },
            {
               "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
               "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
               "target": "com.amazonaws.licensemanager#ValidationException"
            }
         ],
         "traits": {
            "smithy.api#documentation": "<p>Lists grants that are received. Received grants are grants created while
   specifying the\n         recipient as this Amazon Web Services account, your organization, or an organizational unit\n
      (OU) to which this member account belongs.</p>"
         }
```

```
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganization": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
        },
        {
          "target": "com.amazonaws.licensemanager#RateLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
        },
        {
          "target": "com.amazonaws.licensemanager#ServerInternalException"
        },
        {
          "target":
"com.amazonaws.licensemanager#ValidationException"
        }
      ],
      "traits": {
        "smithy.api#documentation": "<p>Lists the grants received for all accounts in the organization.</p>"
      }
    },
    "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationRequest": {
      "type": "structure",
      "members": {
        "LicenseArn": {
          "target": "com.amazonaws.licensemanager#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the received license.</p>",
            "smithy.api#required": {}
          }
        },
        "Filters": {
```

```
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n
    <ul>\n      <li>\n      <p>\n      <code>ParentArn</code>\n      </p>\n      </li>\n
<li>\n      <p>\n      <code>GranteePrincipalArn</code>\n      </p>\n      </li>\n      </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsForOrganizationResponse":
{
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
            "traits": {
              "smithy.api#documentation": "<p>Lists the grants the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsRequest": {
        "type": "structure",
```

```
        "members": {
          "GrantArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
             "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the grants.</p>"
            }
          },
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>LicenseIssuerName</code>\n            </p>\n
</li>\n          <li>\n            <p>\n              <code>LicenseArn</code>\n            </p>\n          </li>\n
<li>\n            <p>\n              <code>GrantStatus</code>\n            </p>\n          </li>\n          <li>\n
<p>\n
        <code>GranterAccountId</code>\n            </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedGrantsResponse": {
        "type": "structure",
        "members": {
          "Grants": {
            "target": "com.amazonaws.licensemanager#GrantList",
             "traits": {
              "smithy.api#documentation": "<p>Received grant details.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#output": {}
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicenses": {
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesRequest"
          },
          "output": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesResponse"
          },
          "errors": [
            {
              "target": "com.amazonaws.licensemanager#AccessDeniedException"
             },
            {
              "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
              "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
              "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
              "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
              "target": "com.amazonaws.licensemanager#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Lists received licenses.</p>"
          }
        },
        "com.amazonaws.licensemanager#ListReceivedLicensesForOrganization":
{
          "type": "operation",
          "input": {
            "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest"
```

```
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {

      "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the licenses received for all accounts in the organization.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationRequest": {
        "type": "structure",
        "members": {
          "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>Beneficiary</code>\n            </p>\n
        </li>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n
          </p>\n          </li>\n        </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
```

```
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
              "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesForOrganizationResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
             "traits": {
              "smithy.api#documentation": "<p>Lists the licenses the organization has received.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesRequest": {
        "type": "structure",
        "members": {
          "LicenseArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARNs) of the licenses.</p>"
            }
          },

         "Filters": {
            "target": "com.amazonaws.licensemanager#FilterList",
            "traits": {
              "smithy.api#documentation": "<p>Filters to scope the results. The following filters are
supported:</p>\n        <ul>\n          <li>\n            <p>\n              <code>ProductSKU</code>\n            </p>\n
```

```
</li>\n <li>\n <p>\n <code>Status</code>\n </p>\n </li>\n
<li>\n <p>\n <code>Fingerprint</code>\n </p>\n </li>\n <li>\n
<p>\n <code>IssuerName</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Beneficiary</code>\n </p>\n </li>\n </ul>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          },
          "MaxResults": {
            "target": "com.amazonaws.licensemanager#MaxSize100",
            "traits": {
               "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListReceivedLicensesResponse": {
        "type": "structure",
        "members": {
          "Licenses": {
            "target": "com.amazonaws.licensemanager#GrantedLicenseList",
            "traits": {
               "smithy.api#documentation": "<p>Received license details.</p>"
            }
          },

          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
               "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventory": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListResourceInventoryRequest"
```

```
    },
    "output": {
      "target": "com.amazonaws.licensemanager#ListResourceInventoryResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanager#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanager#AuthorizationException"
      },
      {
        "target": "com.amazonaws.licensemanager#FailedDependencyException"
      },
      {
        "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
      },
      {
        "target": "com.amazonaws.licensemanager#RateLimitExceededException"
      },
      {
        "target": "com.amazonaws.licensemanager#ServerInternalException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Lists resources managed using Systems Manager inventory.</p>"
    }
  },
  "com.amazonaws.licensemanager#ListResourceInventoryRequest": {
    "type": "structure",
    "members": {
      "MaxResults": {
        "target": "com.amazonaws.licensemanager#BoxInteger",
        "traits": {
          "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
        }
      },
      "NextToken": {
        "target": "com.amazonaws.licensemanager#String",
        "traits": {
          "smithy.api#documentation": "<p>Token for the next set of results.</p>"
        }
      },
      "Filters": {
        "target": "com.amazonaws.licensemanager#InventoryFilterList",
```

```
            "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical operators\n are supported:</p>\n <ul>\n <li>\n <p>\n <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource.\n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>application_name</code> - The name of the application. \n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>license_included</code> - The type of license included. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.\n Possible values are <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>.</p>\n </li>\n <li>\n <p>\n <code>platform</code> - The platform of the resource.\n Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p>\n </li>\n <li>\n <p>\n <code>resource_id</code> - The ID of the resource. \n Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n </li>\n <li>\n <p>\n <code>tag:<key></code> - The key/value combination of a tag assigned \n to the resource. Logical operators are <code>EQUALS</code> (single account) or\n <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p>\n </li>\n </ul>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#ListResourceInventoryResponse": {
        "type": "structure",
        "members": {
          "ResourceInventoryList": {
            "target": "com.amazonaws.licensemanager#ResourceInventoryList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the resources.</p>"
            }
          },
          "NextToken": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token for the next set of results.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTagsForResource": {
        "type": "operation",
```

```
        "input": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListTagsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the tags for the specified license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",

    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "Tags": {
```

```
            "target": "com.amazonaws.licensemanager#TagList",
            "traits": {
              "smithy.api#documentation": "<p>Information about the tags.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#ListTokens": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#ListTokensRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#ListTokensResponse"
        },
        "errors":
[
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists your tokens.</p>"
        }
      },
      "com.amazonaws.licensemanager#ListTokensRequest": {
        "type": "structure",
        "members": {
          "TokenIds": {
            "target": "com.amazonaws.licensemanager#StringList",
            "traits": {
```

```
            "smithy.api#documentation": "<p>Token IDs.</p>"
          }
        },
        "Filters": {
          "target": "com.amazonaws.licensemanager#FilterList",
          "traits": {
            "smithy.api#documentation": "<p>Filters to scope the results. The following filter is supported:</p>\n
    <ul>\n        <li>\n        <p>\n        <code>LicenseArns</code>\n        </p>\n        </li>\n
</ul>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        },
        "MaxResults": {
          "target": "com.amazonaws.licensemanager#MaxSize100",
          "traits": {
            "smithy.api#documentation":
 "<p>Maximum number of results to return in a single call.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#ListTokensResponse": {
      "type": "structure",
      "members": {
        "Tokens": {
          "target": "com.amazonaws.licensemanager#TokenList",
          "traits": {
            "smithy.api#documentation": "<p>Received token details.</p>"
          }
        },
        "NextToken": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Token for the next set of results.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
```

```
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfiguration":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#FilterLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
             {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists all license usage records for a license configuration, displaying
license\n        consumption details by resource at a selected point in time. Use this action to audit the\n        current
license consumption for any license inventory and configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
```

```
            "MaxResults": {
              "target": "com.amazonaws.licensemanager#BoxInteger",
              "traits": {
                "smithy.api#documentation": "<p>Maximum number of results to return in a single call.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanager#Filters",
              "traits": {
                "smithy.api#documentation": "<p>Filters to scope the results. The following filters and logical
operators\n        are supported:</p>\n        <ul>\n          <li>\n            <p>\n
<code>resourceArn</code> - The ARN of the license configuration resource.\n
          Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n
<li>\n            <p>\n              <code>resourceType</code> - The resource type
(<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> |
<code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). \n            Logical operators are
<code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n          <li>\n            <p>\n
<code>resourceAccount</code> - The ID of the account that owns the resource. \n            Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>\n          </li>\n        </ul>"
              }
            }
          },
          "traits": {
            "smithy.api#input": {}
          }
        },
        "com.amazonaws.licensemanager#ListUsageForLicenseConfigurationResponse": {
          "type": "structure",
          "members": {

 "LicenseConfigurationUsageList": {
              "target": "com.amazonaws.licensemanager#LicenseConfigurationUsageList",
              "traits": {
                "smithy.api#documentation": "<p>Information about the license configurations.</p>"
              }
            },
            "NextToken": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": "<p>Token for the next set of results.</p>"
              }
            }
```

```
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#Location": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#Long": {
        "type": "long"
    },
    "com.amazonaws.licensemanager#ManagedResourceSummary": {
        "type": "structure",
        "members": {
            "ResourceType":
{
                "target": "com.amazonaws.licensemanager#ResourceType",
                "traits": {
                    "smithy.api#documentation": "<p>Type of resource associated with a license.</p>"
                }
            },
            "AssociationCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>Number of resources associated with licenses.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Summary information about a managed resource.</p>"
        }
    },
    "com.amazonaws.licensemanager#ManagedResourceSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#ManagedResourceSummary"
        }
    },
    "com.amazonaws.licensemanager#MaxSize100": {

    "type": "integer",
        "traits": {
            "smithy.api#range": {
                "min": 1,
                "max": 100
            }
        }
    },
```

```
"com.amazonaws.licensemanager#MaxSize3StringList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#String"
   },
   "traits": {
      "smithy.api#length": {
         "min": 0,
         "max": 3
      }
   }
},
"com.amazonaws.licensemanager#Message": {
   "type": "string"
},
"com.amazonaws.licensemanager#Metadata": {
   "type": "structure",
   "members": {
      "Name": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The key name.</p>"
         }
      },

"Value": {
         "target": "com.amazonaws.licensemanager#String",
         "traits": {
            "smithy.api#documentation": "<p>The value.</p>"
         }
      }
   },
   "traits": {
      "smithy.api#documentation": "<p>Describes key/value pairs.</p>"
   }
},
"com.amazonaws.licensemanager#MetadataList": {
   "type": "list",
   "member": {
      "target": "com.amazonaws.licensemanager#Metadata"
   }
},
"com.amazonaws.licensemanager#NoEntitlementsAllowedException": {
   "type": "structure",
   "members": {
      "Message": {
         "target": "com.amazonaws.licensemanager#Message"
      }
```

```
        },
        "traits": {
          "smithy.api#documentation": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
          "smithy.api#error": "client",
          "smithy.api#httpError": 400
        }
      },
      "com.amazonaws.licensemanager#Options": {
        "type": "structure",
        "members": {
          "ActivationOverrideBehavior": {
            "target": "com.amazonaws.licensemanager#ActivationOverrideBehavior",
            "traits": {
              "smithy.api#documentation": "<p>An activation option for your grant that determines the behavior of activating a grant.\n Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code> for the\n <code>Status</code> parameter.</p>\n <ul>\n <li>\n <p>As a license administrator, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when activating a grant.</p>\n </li>\n <li>\n <p>As a grantor, you can optionally specify an\n <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee\n account in your organization.</p>\n </li>\n <li>\n <p>As a grantee, if the grantor creating the distributed grant doesnt specify an\n <code>ActivationOverrideBehavior</code>, you can optionally specify one when you\n are activating the grant.</p>\n </li>\n </ul>\n <dl>\n <dt>DISTRIBUTED_GRANTS_ONLY</dt>\n <dd>\n <p>Use this value to activate a grant without replacing any member accounts\n active grants for the same product.</p>\n </dd>\n <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt>\n <dd>\n <p>Use this value to activate a grant and disable other active grants in any\n member accounts
 for the same product. This action will also replace their\n previously activated grants with this activated grant.</p>\n </dd>\n </dl>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>The options you can specify when you create a new version of a grant, such as activation\n override behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>"
        }
      },
      "com.amazonaws.licensemanager#OrganizationConfiguration": {
        "type": "structure",
        "members": {
          "EnableIntegration": {
            "target": "com.amazonaws.licensemanager#Boolean",
            "traits": {
              "smithy.api#default": false,
              "smithy.api#documentation":
```

```
"<p>Enables Organizations integration.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Configuration information for Organizations.</p>"
        }
    },
    "com.amazonaws.licensemanager#PrincipalArnList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#Arn"
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 1
            }
        }
    },
    "com.amazonaws.licensemanager#ProductInformation": {
        "type": "structure",
        "members": {
            "ResourceType": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Resource type. The
possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",
                    "smithy.api#required": {}
                }
            },
            "ProductInformationFilterList": {
                "target": "com.amazonaws.licensemanager#ProductInformationFilterList",
                "traits": {
                    "smithy.api#documentation": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p>\n          <p>Accepted values
for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p>\n          <p>The following filters and are supported when
the resource type \n          is <code>SSM_MANAGED</code>:</p>\n
          <ul>\n            <li>\n              <p>\n                <code>Application Name</code> - The name of the
application.\n              Logical operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n
<p>\n                <code>Application Publisher</code> - The publisher of the application.\n              Logical
operator is <code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n
<code>Application Version</code> - The version of the application.\n              Logical operator is
<code>EQUALS</code>.</p>\n            </li>\n            <li>\n              <p>\n                <code>Platform
```

Name</code> - The name of the platform.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Platform Type</code> - The platform type.\n Logical operator is <code>EQUALS</code>. \n \n \n \n <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.\n \n \n \n \n <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery.\n Logical operator is <code>NOT_EQUALS</code>. \n \n \n \n <code>License Included</code> - The type of license included.\n Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>.\n Possible values are: <code>sql-server-enterprise</code> | \n <code>sql-server-standard</code> | \n <code>sql-server-web</code> | \n <code>windows-server-datacenter</code>. \n \n \n The following filters and logical operators are supported when the resource type\n is <code>RDS</code>: \n \n \n \n <code>Engine Edition</code> - The edition of the database engine.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>. \n \n \n \n <code>License Pack</code> - The license pack.\n Logical operator is <code>EQUALS</code>.\n Possible values are: <code>data guard</code> | \n <code>diagnostic pack sqlt</code> | \n <code>tuning pack sqlt</code> | \n <code>ols</code> | \n <code>olap</code>. \n \n ",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": " Describes product information for a license configuration. "
          }
        },
        "com.amazonaws.licensemanager#ProductInformationFilter": {
          "type": "structure",
          "members": {
            "ProductInformationFilterName": {
              "target": "com.amazonaws.licensemanager#String",
              "traits": {
                "smithy.api#documentation": " Filter name. ",
                "smithy.api#required": {}
              }
            },
            "ProductInformationFilterValue": {
              "target": "com.amazonaws.licensemanager#StringList",

            "traits": {
                "smithy.api#documentation": " Filter value. "
              }
            },

```
        "ProductInformationFilterComparator": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Logical operator.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes product information filters.</p>"
    }
},
"com.amazonaws.licensemanager#ProductInformationFilterList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformationFilter"
    }
},
"com.amazonaws.licensemanager#ProductInformationList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanager#ProductInformation"
     }
},
"com.amazonaws.licensemanager#ProvisionalConfiguration": {
    "type": "structure",
    "members": {
        "MaxTimeToLiveInMinutes": {
            "target": "com.amazonaws.licensemanager#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>Maximum time for the provisional configuration, in minutes.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Details about a provisional configuration.</p>"
    }
},
"com.amazonaws.licensemanager#RateLimitExceededException": {
    "type": "structure",
    "members": {
        "Message": {
            "target": "com.amazonaws.licensemanager#Message"
        }
    },
    "traits": {
```

```
            "aws.protocols#awsQueryError": {
              "code": "RateLimitExceeded",
              "httpResponseCode": 429
            },
            "smithy.api#documentation": "<p>Too many requests have been submitted. Try again after a brief
wait.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 429
          }
        },
        "com.amazonaws.licensemanager#ReceivedMetadata": {
          "type": "structure",
          "members": {
            "ReceivedStatus": {
              "target": "com.amazonaws.licensemanager#ReceivedStatus",
              "traits": {
                "smithy.api#documentation": "<p>Received status.</p>"
              }
            },
            "ReceivedStatusReason": {
              "target": "com.amazonaws.licensemanager#StatusReasonMessage",
              "traits": {
                "smithy.api#documentation": "<p>Received
 status reason.</p>"
              }
            },
            "AllowedOperations": {
              "target": "com.amazonaws.licensemanager#AllowedOperationList",
              "traits": {
                "smithy.api#documentation": "<p>Allowed operations.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Metadata associated with received licenses and grants.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReceivedStatus": {
          "type": "enum",
          "members": {
            "PENDING_WORKFLOW": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "PENDING_WORKFLOW"
              }
            },
            "PENDING_ACCEPT": {
              "target": "smithy.api#Unit",
```

```
            "traits": {
              "smithy.api#enumValue":
"PENDING_ACCEPT"
            }
          },
          "REJECTED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REJECTED"
            }
          },
          "ACTIVE": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "ACTIVE"
            }
          },
          "FAILED_WORKFLOW": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "FAILED_WORKFLOW"
            }
          },
          "DELETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DELETED"
            }
          },
          "DISABLED": {
            "target": "smithy.api#Unit",
             "traits": {
              "smithy.api#enumValue": "DISABLED"
            }
          },
          "WORKFLOW_COMPLETED": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WORKFLOW_COMPLETED"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#RedirectException": {
        "type": "structure",
        "members": {
          "Location": {
            "target": "com.amazonaws.licensemanager#Location",
```

```
            "traits": {
              "smithy.api#httpHeader": "Location"
            }
          },
          "Message": {
            "target": "com.amazonaws.licensemanager#Message"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>This is not the correct Region for the resource. Try again.</p>",
           "smithy.api#error": "client",
          "smithy.api#httpError": 308
        }
      },
      "com.amazonaws.licensemanager#RejectGrant": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#RejectGrantRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#RejectGrantResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target":
"com.amazonaws.licensemanager#ResourceLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          },
          {
            "target": "com.amazonaws.licensemanager#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Rejects the specified grant.</p>"
```

```
        }
      },
      "com.amazonaws.licensemanager#RejectGrantRequest": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the grant.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}

  }
      },
      "com.amazonaws.licensemanager#RejectGrantResponse": {
        "type": "structure",
        "members": {
          "GrantArn": {
            "target": "com.amazonaws.licensemanager#Arn",
            "traits": {
              "smithy.api#documentation": "<p>Grant ARN.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#GrantStatus",
            "traits": {
              "smithy.api#documentation": "<p>Grant status.</p>"
            }
          },
          "Version": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Grant version.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#RenewType":
  {
        "type": "enum",
        "members": {
```

```
            "NONE": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "None"
              }
            },
            "WEEKLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Weekly"
              }
            },
            "MONTHLY": {
              "target": "smithy.api#Unit",
              "traits": {
                "smithy.api#enumValue": "Monthly"
              }
            }
          }
        },
        "com.amazonaws.licensemanager#ReportContext": {
          "type": "structure",
          "members": {
            "licenseConfigurationArns": {
              "target": "com.amazonaws.licensemanager#ArnList",
              "traits": {

          "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license configuration that this
generator reports on.</p>",
                "smithy.api#required": {}
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Details of the license configuration that this generator reports on.</p>"
          }
        },
        "com.amazonaws.licensemanager#ReportFrequency": {
          "type": "structure",
          "members": {
            "value": {
              "target": "com.amazonaws.licensemanager#Integer",
              "traits": {
                "smithy.api#documentation": "<p>Number of times within the frequency period that a report is
generated.  \n         The only supported value is <code>1</code>.</p>"
              }
            },
            "period": {
```

```
            "target": "com.amazonaws.licensemanager#ReportFrequencyType",

            "traits": {
                "smithy.api#documentation": "<p>Time period between each report. The period can be daily, weekly,
or monthly.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
        }
      },
      "com.amazonaws.licensemanager#ReportFrequencyType": {
        "type": "enum",
        "members": {
          "DAY": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "DAY"
            }
          },
          "WEEK": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "WEEK"
            }
          },
          "MONTH": {
            "target": "smithy.api#Unit",
            "traits":
{
              "smithy.api#enumValue": "MONTH"
            }
          }
        }
      },
      "com.amazonaws.licensemanager#ReportGenerator": {
        "type": "structure",
        "members": {
          "ReportGeneratorName": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>"
            }
          },
          "ReportType": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
```

```
                "smithy.api#documentation": "<p>Type of reports that are generated.</p>"
            }
        },
        "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
                "smithy.api#documentation": "<p>License
configuration type for this generator.</p>"
            }
        },
        "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits": {
                "smithy.api#documentation": "<p>Details about how frequently reports are generated.</p>"
            }
        },
        "LicenseManagerReportGeneratorArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator.</p>"
            }
        },
        "LastRunStatus": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Status of the last report generation attempt.</p>"
            }
        },
        "LastRunFailureReason":
{
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Failure message for the last report generation attempt.</p>"
            }
        },
        "LastReportGenerationTime": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>Time the last report was generated at.</p>"
            }
        },
        "ReportCreatorAccount": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Web Services account ID used to create the report
generator.</p>"
            }
        },
```

```
            "Description": {
               "target": "com.amazonaws.licensemanager#String",

         "traits": {
                  "smithy.api#documentation": "<p>Description of the report generator.</p>"
               }
            },
            "S3Location": {
               "target": "com.amazonaws.licensemanager#S3Location",
               "traits": {
                  "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
               }
            },
            "CreateTime": {
               "target": "com.amazonaws.licensemanager#String",
               "traits": {
                  "smithy.api#documentation": "<p>Time the report was created.</p>"
               }
            },
            "Tags": {
               "target": "com.amazonaws.licensemanager#TagList",
               "traits": {
                  "smithy.api#documentation": "<p>Tags associated with the report generator.</p>"
               }

      }
         },
         "traits": {
            "smithy.api#documentation": "<p>Describe the details of a report generator.</p>"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorList": {
         "type": "list",
         "member": {
            "target": "com.amazonaws.licensemanager#ReportGenerator"
         }
      },
      "com.amazonaws.licensemanager#ReportGeneratorName": {
         "type": "string",
         "traits": {
            "smithy.api#length": {
               "min": 1,
               "max": 100
            }
         }
      },
      "com.amazonaws.licensemanager#ReportType": {
```

```
      "type": "enum",
      "members": {
        "LICENSE_CONFIGURATION_SUMMARY_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationSummaryReport"
          }

    },
        "LICENSE_CONFIGURATION_USAGE_REPORT": {
          "target": "smithy.api#Unit",
          "traits": {
            "smithy.api#enumValue": "LicenseConfigurationUsageReport"
          }
        }
      }
    },
    "com.amazonaws.licensemanager#ReportTypeList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ReportType"
      }
    },
    "com.amazonaws.licensemanager#ResourceInventory": {
      "type": "structure",
      "members": {
        "ResourceId": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the resource.</p>"
          }
        },
        "ResourceType": {
          "target": "com.amazonaws.licensemanager#ResourceType",
          "traits":
{
            "smithy.api#documentation": "<p>Type of resource.</p>"
          }
        },
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the resource.</p>"
          }
        },
        "Platform": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
```

```
            "smithy.api#documentation": "<p>Platform of the resource.</p>"
          }
        },
        "PlatformVersion": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Platform version of the resource in the inventory.</p>"
          }
        },
        "ResourceOwningAccountId":
{
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>ID of the account that owns the resource.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about a resource.</p>"
      }
    },
    "com.amazonaws.licensemanager#ResourceInventoryList": {
      "type": "list",
      "member": {
        "target": "com.amazonaws.licensemanager#ResourceInventory"
      }
    },
    "com.amazonaws.licensemanager#ResourceLimitExceededException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "ResourceLimitExceeded",

           "httpResponseCode": 400
        },
        "smithy.api#documentation": "<p>Your resource limits have been exceeded.</p>",
        "smithy.api#error": "client",
        "smithy.api#httpError": 400
      }
    },
    "com.amazonaws.licensemanager#ResourceNotFoundException": {
      "type": "structure",
      "members": {
```

```
      "Message": {
        "target": "com.amazonaws.licensemanager#Message"
      }
    },
    "traits": {
      "aws.protocols#awsQueryError": {
        "code": "InvalidResource.NotFound",
        "httpResponseCode": 400
      },
      "smithy.api#documentation": "<p>The resource cannot be found.</p>",
      "smithy.api#error": "client",
      "smithy.api#httpError": 400
    }
  },
  "com.amazonaws.licensemanager#ResourceType": {
    "type": "enum",
     "members": {
      "EC2_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_INSTANCE"
        }
      },
      "EC2_HOST": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_HOST"
        }
      },
      "EC2_AMI": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "EC2_AMI"
        }
      },
      "RDS": {
        "target": "smithy.api#Unit",
        "traits": {
          "smithy.api#enumValue": "RDS"
        }
      },
      "SYSTEMS_MANAGER_MANAGED_INSTANCE": {
        "target": "smithy.api#Unit",
        "traits": {
           "smithy.api#enumValue": "SYSTEMS_MANAGER_MANAGED_INSTANCE"
        }
      }
    }
```

```
    },
    "com.amazonaws.licensemanager#S3Location": {
      "type": "structure",
      "members": {
        "bucket": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Name of the S3 bucket reports are published to.</p>"
          }
        },
        "keyPrefix": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Prefix of the S3 bucket reports are published to.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
      }
    },
    "com.amazonaws.licensemanager#ServerInternalException": {
      "type": "structure",
      "members": {
        "Message": {
          "target": "com.amazonaws.licensemanager#Message"
        }
      },
      "traits": {
        "aws.protocols#awsQueryError": {
          "code": "InternalError",
          "httpResponseCode": 500
        },
        "smithy.api#documentation": "<p>The server experienced an internal error. Try again.</p>",
        "smithy.api#error": "server",
        "smithy.api#httpError": 500
      }
    },
    "com.amazonaws.licensemanager#SignedToken": {
      "type": "string",
      "traits": {
        "smithy.api#length": {
          "min": 4096
        }
      }
    },
    "com.amazonaws.licensemanager#StatusReasonMessage": {
```

```
        "type": "string",
        "traits":
{
            "smithy.api#length": {
                "min": 0,
                "max": 400
            },
            "smithy.api#pattern": "^[\\s\\S]+$"
        }
    },
    "com.amazonaws.licensemanager#String": {
        "type": "string"
    },
    "com.amazonaws.licensemanager#StringList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#Tag": {
        "type": "structure",
        "members": {
            "Key": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Tag key.</p>"
                }
            },
            "Value": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation":
"<p>Tag value.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about a tag for a license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#TagKeyList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanager#String"
        }
    },
    "com.amazonaws.licensemanager#TagList": {
        "type": "list",
```

```
        "member": {
          "target": "com.amazonaws.licensemanager#Tag"
        }
      },
      "com.amazonaws.licensemanager#TagResource": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanager#TagResourceRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanager#TagResourceResponse"
        },
        "errors": [
          {
            "target":
 "com.amazonaws.licensemanager#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanager#AuthorizationException"
          },
          {
            "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
          },
          {
            "target": "com.amazonaws.licensemanager#RateLimitExceededException"
          },
          {
            "target": "com.amazonaws.licensemanager#ServerInternalException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Adds the specified tags to the specified license configuration.</p>"
        }
      },
      "com.amazonaws.licensemanager#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits":
 {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanager#TagList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>One or more tags.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanager#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanager#TokenData": {
        "type": "structure",
        "members": {
          "TokenId": {
            "target": "com.amazonaws.licensemanager#String",
             "traits": {
              "smithy.api#documentation": "<p>Token ID.</p>"
            }
          },
          "TokenType": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>"
            }
          },
          "LicenseArn": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license.</p>"
            }
          },
          "ExpirationTime": {
            "target": "com.amazonaws.licensemanager#ISO8601DateTime",
            "traits": {
              "smithy.api#documentation": "<p>Token expiration time, in ISO8601-UTC
 format.</p>"
            }
          },
          "TokenProperties": {
            "target": "com.amazonaws.licensemanager#MaxSize3StringList",
```

```
            "traits": {
              "smithy.api#documentation": "<p>Data specified by the caller.</p>"
            }
          },
          "RoleArns": {
            "target": "com.amazonaws.licensemanager#ArnList",
            "traits": {
              "smithy.api#documentation": "<p>Amazon Resource Names (ARN) of the roles included in the
token.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Token status. The possible values are
<code>AVAILABLE</code> and <code>DELETED</code>.</p>"
            }
          }
        },
        "traits": {

          "smithy.api#documentation": "<p>Describes a token.</p>"
        }
      },
      "com.amazonaws.licensemanager#TokenList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanager#TokenData"
        }
      },
      "com.amazonaws.licensemanager#TokenString": {
        "type": "string",
        "traits": {
          "smithy.api#length": {
            "min": 0,
            "max": 4096
          },
          "smithy.api#pattern": "^\\S+$"
        }
      },
      "com.amazonaws.licensemanager#TokenType": {
        "type": "enum",
        "members": {
          "REFRESH_TOKEN": {
            "target": "smithy.api#Unit",
            "traits": {
              "smithy.api#enumValue": "REFRESH_TOKEN"
            }
```

```
            }
        }
    },
    "com.amazonaws.licensemanager#UnsupportedDigitalSignatureMethodException":
{
        "type": "structure",
        "members": {
            "Message": {
                "target": "com.amazonaws.licensemanager#Message"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The digital signature method is unsupported. Try your request
again.</p>",
            "smithy.api#error": "client",
            "smithy.api#httpError": 400
        }
    },
    "com.amazonaws.licensemanager#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
             },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes the specified tags from the specified license
configuration.</p>"
        }
    },
```

```
    "com.amazonaws.licensemanager#UntagResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
             "smithy.api#required": {}
          }
        },
        "TagKeys": {
          "target": "com.amazonaws.licensemanager#TagKeyList",
          "traits": {
            "smithy.api#documentation": "<p>Keys identifying the tags to remove.</p>",
            "smithy.api#required": {}
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UntagResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfiguration": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest"
      },
      "output": {

 "target": "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanager#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanager#AuthorizationException"
        },
        {
          "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Modifies the attributes of an existing license configuration.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationRequest": {
        "type": "structure",
        "members": {
            "LicenseConfigurationArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
                    "smithy.api#required": {}
                }
            },
            "LicenseConfigurationStatus": {
                "target": "com.amazonaws.licensemanager#LicenseConfigurationStatus",
                "traits": {
                    "smithy.api#documentation": "<p>New status of the license configuration.</p>"
                }
            },
            "LicenseRules": {
                "target": "com.amazonaws.licensemanager#StringList",
                "traits": {

  "smithy.api#documentation": "<p>New license rule. The only rule that you can add after you create a license\n
  configuration is licenseAffinityToHost.</p>"
                }
            },
            "LicenseCount": {
                "target": "com.amazonaws.licensemanager#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>New number of licenses managed by the license
configuration.</p>"
                }
            },
            "LicenseCountHardLimit": {
```

```
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>New hard limit of the number of available licenses.</p>"
                }
            },
            "Name": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New name
 of the license configuration.</p>"
                }
            },
            "Description": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>New description of the license configuration.</p>"
                }
            },
            "ProductInformationList": {
                "target": "com.amazonaws.licensemanager#ProductInformationList",
                "traits": {
                    "smithy.api#documentation": "<p>New product information.</p>"
                }
            },
            "DisassociateWhenNotFound": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
                    "smithy.api#documentation": "<p>When true, disassociates a resource when software is
uninstalled.</p>"
                }
            }
        },
        "traits":
{
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseConfigurationResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGenerator": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
             },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            },
            {
                "target": "com.amazonaws.licensemanager#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates a report generator.</p>\n        <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorRequest": {
        "type": "structure",
        "members": {
            "LicenseManagerReportGeneratorArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
                    "smithy.api#required": {}
                }
            },
            "ReportGeneratorName": {
```

```
            "target": "com.amazonaws.licensemanager#ReportGeneratorName",
            "traits": {
              "smithy.api#documentation": "<p>Name of the report generator.</p>",
              "smithy.api#required": {}
            }
          },
          "Type": {
            "target": "com.amazonaws.licensemanager#ReportTypeList",
            "traits": {
              "smithy.api#documentation":
 "<p>Type of reports to generate. The following report types are supported:</p>\n        <ul>\n        <li>\n
<p>License configuration report - Reports the number and details of consumed licenses for a license
configuration.</p>\n        </li>\n        <li>\n        <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p>\n        </li>\n        </ul>",
              "smithy.api#required": {}
            }
          },
          "ReportContext": {
            "target": "com.amazonaws.licensemanager#ReportContext",
            "traits": {
              "smithy.api#documentation": "<p>The report context.</p>",
              "smithy.api#required": {}
            }
          },
          "ReportFrequency": {
            "target": "com.amazonaws.licensemanager#ReportFrequency",
            "traits":
 {
              "smithy.api#documentation": "<p>Frequency by which reports are generated.</p>",
              "smithy.api#required": {}
            }
          },
          "ClientToken": {
            "target": "com.amazonaws.licensemanager#ClientRequestToken",
            "traits": {
              "smithy.api#documentation": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
              "smithy.api#required": {}
            }
          },
          "Description": {
            "target": "com.amazonaws.licensemanager#String",
            "traits": {
              "smithy.api#documentation": "<p>Description of the report generator.</p>"
            }
          }
        },
        "traits": {
```

```
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseManagerReportGeneratorResponse":
{
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },

            {
                "target": "com.amazonaws.licensemanager#InvalidResourceStateException"
            },
            {
                "target": "com.amazonaws.licensemanager#LicenseUsageException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds or removes the specified license configurations for the specified
Amazon Web Services resource.</p>\n          <p>You can update the license specifications of AMIs, instances, and
hosts.\n          You cannot update the license specifications for launch templates and CloudFormation templates, \n
 as they send license configurations to the operation that creates the resource.</p>"
```

```
        }
      },

    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceRequest": {
      "type": "structure",
      "members": {
        "ResourceArn": {
          "target": "com.amazonaws.licensemanager#String",
          "traits": {
            "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon Web Services
resource.</p>",
            "smithy.api#required": {}
          }
        },
        "AddLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation": "<p>ARNs of the license configurations to add.</p>"
          }
        },
        "RemoveLicenseSpecifications": {
          "target": "com.amazonaws.licensemanager#LicenseSpecifications",
          "traits": {
            "smithy.api#documentation":
 "<p>ARNs of the license configurations to remove.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateLicenseSpecificationsForResourceResponse": {
      "type": "structure",
      "members": {},
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettings": {
      "type": "operation",
      "input": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanager#UpdateServiceSettingsResponse"
      },
      "errors": [
```

```
            {
                "target": "com.amazonaws.licensemanager#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanager#AuthorizationException"
            },
            {
                "target": "com.amazonaws.licensemanager#InvalidParameterValueException"
            },
            {
                "target": "com.amazonaws.licensemanager#RateLimitExceededException"
            },
            {
                "target": "com.amazonaws.licensemanager#ServerInternalException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates License Manager settings for the current Region.</p>"
        }
    },
    "com.amazonaws.licensemanager#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "S3BucketArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where
the License
 Manager information is stored.</p>"
                }
            },
            "SnsTopicArn": {
                "target": "com.amazonaws.licensemanager#String",
                "traits": {
                    "smithy.api#documentation": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used
for License Manager alerts.</p>"
                }
            },
            "OrganizationConfiguration": {
                "target": "com.amazonaws.licensemanager#OrganizationConfiguration",
                "traits": {
                    "smithy.api#documentation": "<p>Enables integration with Organizations for cross-account
discovery.</p>"
                }
            },
            "EnableCrossAccountsDiscovery": {
                "target": "com.amazonaws.licensemanager#BoxBoolean",
                "traits": {
```

```
                "smithy.api#documentation": "<p>Activates cross-account discovery.</p>"

            }
                }
            },
            "traits": {
                "smithy.api#input": {}
            }
        },
        "com.amazonaws.licensemanager#UpdateServiceSettingsResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanager#UsageOperation": {
            "type": "string",
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 50
                }
            }
        },
        "com.amazonaws.licensemanager#ValidationException": {
            "type": "structure",
            "members": {
                "Message": {
                    "target": "com.amazonaws.licensemanager#Message"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",

            "smithy.api#error": "client",
                "smithy.api#httpError": 400
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version
 of the license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack,
 options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
  return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
  return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = awsmiddleware.AddRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
```

1.241 sigstore-sigstore-pkg-signature-kms-aws 1.7.6

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1.242 sigstore-sigstore-pkg-signature-kms-gcp 1.7.6

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1.243 sigstore-sigstore-pkg-signature-kms-azure 1.7.6

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1.244 buildkite-go-pipeline 0.2.0

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1.245 containerd-continuity 0.4.3

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1.246 cloudflare-circl 1.3.7

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1.247 tags.cncf.io-container-device-interface 0.6.2

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1.248 aws-aws-sdk-go-v2 1.10.10

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1.249 aws-aws-sdk-go-v2 1.14.11

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1.252 aws-aws-sdk-go-v2-internal-endpoints 2.5.10

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1.260 logr 1.3.0

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```
Package: logr
Title: Creates Log Files
Version: 1.3.0
Authors@R: c(
  person(given = "David",
         family = "Bosak",
         role = c("aut", "cre"),
         email = "dbosak01@gmail.com"),
  person("Rikard", "Isaksson", role = "ctb"))
Description: Contains functions to help create log files.  The
  package aims to overcome the difficulty of the base R sink() command.  The
  log_print() function will print to both the console and the file log,
  without interfering in other write operations.
License: CC0
Encoding: UTF-8
URL: https://logr.r-sassy.org
BugReports: https://github.com/dbosak01/logr/issues
Depends: R (>= 3.4.0)
Suggests:
  knitr,
  rmarkdown,
  testthat,
  tidylog,
  dplyr,
  covr
Imports: withr,
       utils,
       this.path
VignetteBuilder: knitr
```

Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.2

Found in path(s):
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/DESCRIPTION
No license file was found, but licenses were detected in source scan.

/*
 Source: https://github.com/algolia/docsearch/
 License: MIT
*/

Found in path(s):
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/docsearch.css
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* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
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Found in path(s):
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.js
* /opt/cola/permits/1892506801_1706095861.09647/0/logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.css

1.261 go-openapi 0.26.0

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1.262 kubernetes-klog 2.100.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.265 aws-aws-sdk-go-v2-internal-ini 1.7.3

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1.266 query 1.1.0

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1.267 protonmail-go-crypto 1.0.0

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1.268 uniseg 0.4.7

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1.269 containerd-console 1.0.4

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1.275 kubernetes-api 0.29.2

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1.276 sergi-go-diff 1.3.2-0.20230802210424-5b0b94c5c0d3

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1.277 gorilla 1.5.0

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1.278 moby-docker-image-spec 1.3.1

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 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //   License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
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```
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
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 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
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 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
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type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //   on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //   License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //   on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //   is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

// 10.5: License Comment
// Cardinality:
optional, one
LicenseComment string `json:"comment,omitempty"`
}
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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lib/erl/src/Makefile.am

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components:

```
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
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  2015-05-02
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
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 in t_html_generator.h

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1.282 protobuf 1.33.0

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1.283 skeema-knownhosts 1.2.2

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1.284 x-net 0.23.0

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1.285 distribution-reference 0.6.0

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1.286 go-git 5.12.0

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1.287 gopkg.in-ini 1.67.0

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1.288 pflag 1.0.5

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1.289 containerd 1.7.15

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.290 go-colorful 1.2.0

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1.292 open-telemetry-opentelemetry-collector-contrib 1.21.0

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1.293 go-uber-org-multierr 1.11.0

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1.294 dario.cat-mergo 1.0.0

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1.296 gopkg.in-warnings 0.1.2

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1.297 go-multierror 1.1.1

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1.298 go-units 0.5.0

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1.299 go-autorest-logging 0.2.1

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1.302 docker-buildx 0.14.0

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.309 x-term 0.20.0

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1.310 urfave-cli 2.27.2

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1.311 go-md2man 2.0.4

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1.312 schollz-progressbar 3.14.2

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1.313 gofuzz 1.2.0

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1.314 goprotobuf 1.5.4

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1.315 aliyun-alibaba-cloud-sdk-go 0.2.0

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1.316 azure-sdk-for-go 68.0.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.318 x-sync 0.8.0

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1.319 goprotobuf 1.5.3

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1.321 reflectwalk 1.0.2

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1.324 gopkg.in-inf 0.9.1

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1.325 go-rootcerts 1.0.2

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1.329 x-sys 0.25.0

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1.330 x-text 0.18.0

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1.331 charmbracelet-bubbles 0.20.0

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1.332 charmbracelet-bubbletea 1.1.0

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1.333 grpc-go 1.59.0

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1.334 easyjson 0.7.7

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1.335 yaml 1.3.0

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1.336 errors 0.9.1

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1.337 gopkg.in-yaml 2.4.0

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1.338 docker-compose 2.27.0

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1.339 charmbracelet-log 0.4.0

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1.340 env 11.0.1

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1.341 go-daemon 0.1.6

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1.342 sassoftware-relic 7.2.1

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1.343 docker 24.0.7

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.346 go-chi-chi 4.1.2

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1.347 golang 1.23.3

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1.348 go-runewidth 0.0.16

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1.349 charmbracelet-huh 0.6.0

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1.350 muesli-termenv 0.15.3-0.20240618155329-98d742f6907a

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