



Kafka Notifications for Cisco Nexus Dashboard Fabric Controller (NDFC) IPFM Fabrics, Release 12.0.x

First Published: 30 September 2021

Overview

Cisco NDFC Notification Service utilizes an Apache Kafka Producer to publish a stream of notifications to a Kafka topic. Each notification represents a single object-modifying event. The user can then use a Kafka Consumer to consume the object change records and take any necessary actions.

Note: The documentation set for this product strives to use bias-free language. For this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Client Bundle Certificate

To fetch the client bundle certificate, perform the following steps:

1. Launch Cisco NDFC Web UI.
2. In the browser url, enter the following address:
<https://<ndfc-server-ip>/appcenter/cisco/ndfc/api/v1/pmnl/kafka-cert-bundle?password=<password-to-encrypt-bundle>>

The “kafka-cert-bundle.zip” file is downloaded to your local directory.

Ensure that you remember the password to encrypt the bundle. This password is required to decrypt the client.key.encrypted file.

3. Unzip the kafka-cert-bundle.zip and extract the files.
4. Decrypt the file client.key.encrypted to client.key using the following command:

```
openssl enc -aes-256-cbc -a -d -in client.key.encrypted -out client.key -k <password-to-encrypt-bundle>
```

Ensure that you use the correct version of SSL. Note that few SSL versions may not work.

Note: If you need java JKS keystore or truststore, use the steps mentioned in the readme.txt file

Change History

All the notifications mentioned in this document are introduced in Cisco Nexus Dashboard Fabric Controller, Release 12.0.1a.

NBM VRF Create

Create VRF

Key	vrf.
Payload	{ "messageId" : 8201,

NBM VRF Create

```

    "routingKey": "information.com.cisco.dcnm.event.pmn.create.vrf",
    "header": {
      "Type": "vrf",
      "User": "Internal",
      "Operation Status": "Success",
      "Event": "Successfully created pmn vrf with vrf name and description (vrf_test1234, )
in Fabric pmn-fnc by admin",
      "Sent At": "2021-08-17, 20:39:13 UTC",
      "Severity": "Information",
      "Operation": "Create"
    },
    "data": {
      "fabric": "pmn-fnc",
      "vrf": "vrf_test1234",
      "message": "Successfully created pmn vrf with vrf name and description
(vrf_test1234) in Fabric pmn-fnc by admin"
    }
  }
}

```

Deploy VRF

Key	vrf.
Payload	<pre> { "messageId": 8006, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.vrf", "header": { "Type": "vrf", "User": "Internal", "Operation Status": "Success", "Event": "vrf [] Deployment in VRF: 'vrf_test1234' in Fabric: 'pmn-fnc' on switch: 172.31.148.36", "Sent At": "2021-08-17, 20:39:15 UTC", "Severity": "Information", "Operation": "Deploy" }, "data": { "Deployed data": "{ \"nbmGlobalConfDom\" : { \"attributes\" : { \"name\" : \"vrf_test1234\" } }", "fabric": "pmn-fnc", "deployment type": "vrf", "vrf": "vrf_test1234", "switch-ip": "172.31.148.36" } } </pre>

Edit VRF

Key	vrf.
Payload	<pre> { "messageId": 8202, "routingKey": "information.com.cisco.dcnm.event.pmn.update.vrf", "header": { </pre>

```

    "Type": "vrf",
    "User": "Internal",
    "Operation Status": "Success",
    "Event": "Successfully updated pmn vrf with vrf name and description from
(vrf_test1234, ) to (vrf_test1234, just modifyng the description of vrf for test) in Fabric
pmn-fnc by admin",
    "Sent At": "2021-08-17, 20:40:59 UTC",
    "Severity": "Information",
    "Operation": "Update"
  },
  "data": {
    "fabric": "pmn-fnc",
    "vrf": "vrf_test1234",
    "message": "Successfully updated pmn vrf with vrf name and description from
(vrf_test1234, ) to (vrf_test1234, just modifyng the description of vrf for test) in Fabric
pmn-fnc by admin"
  }
}

```

Delete VRF

Key

vrf.

Payload

```

{
  "messageId": 8203,
  "routingKey": "information.com.cisco.dcnm.event.pmn.delete.vrf",
  "header": {
    "Type": "vrf",
    "User": "Internal",
    "Operation Status": "Success",
    "Event": "Successfully deleted pmn vrf with vrf name and description (vrf_test1234,
just modifyng the description of vrf for test) in Fabric pmn-fnc by admin",
    "Sent At": "2021-08-17, 20:41:29 UTC",
    "Severity": "Information",
    "Operation": "Delete"
  },
  "data": {
    "fabric": "pmn-fnc",
    "vrf": "vrf_test1234",
    "message": "Successfully deleted pmn vrf with vrf name and description
(vrf_test1234, just modifyng the description of vrf for test) in Fabric pmn-fnc by admin"
  }
}

```

Undeploy VRF on delete

Key

vrf.

Payload

```

{
  "messageId": 8006,
  "routingKey": "information.com.cisco.dcnm.event.pmn.undeploy.vrf",
  "header": {
    "Type": "vrf",

```

NBM Global Config

```

    "User": "Internal",
    "Operation Status": "Success",
    "Event": "vrf [] Undeployment in VRF: 'vrf_test1234' in Fabric: 'pmn-fnc' on switch:
172.31.149.58",
    "Sent At": "2021-08-17, 20:41:31 UTC",
    "Severity": "Information",
    "Operation": "Undeploy"
  },
  "data": {
    "Deployed data": "{ \"nbmGlobalConfDom\" : { \"attributes\" :
{ \"name\" : \"vrf_test1234\", \"status\" : \"deleted\" } } }",
    "fabric": "pmn-fnc",
    "deployment type": "vrf",
    "vrf": "vrf_test1234",
    "switch-ip": "172.31.149.58"
  }
}

```

NBM Global Config

ASM group-ranges – Deploy Success

Key	asm.
Payload	<pre> { "messageId": 8001, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.asm", "header": { "Type": "asm", "User": "Internal", "Operation Status": "Success", "Event": "asm [Count:2(asm.....)] Deployment in VRF: 'test_pmn' in Fabric: 'pmn- soln' on switch: 172.31.147.80", "Sent At": "2021-07-29, 17:57:52 UTC", "Severity": "Information", "Operation": "Deploy" }, "data": { "Deployed data": "[asm, 31]", "fabric": "pmn-soln", "deployment type": "asm", "vrf": "all vrfs", "switch-ip": "172.31.147.80" } } </pre>

ASM group-ranges – Deploy Failure

Key	asm.
Payload	<pre> { "messageId": 8101, </pre>

Unicast Bandwidth

```

    "routingKey": "error.com.cisco.dcnm.event.pmn.deploy.asm",
    "header": {
      "Type": "asm",
      "User": "Internal",
      "Operation Status": "Failure",
      "Event": "asm [Count:2(asm.....)] Deployment failed in VRF: 'test_pmn' in Fabric:
'pmn-soln' on switch: 172.31.147.161, Reason: ERROR: Please Create NBM VRF test_pmn
before this config",
      "Sent At": "2021-07-29, 18:05:04 UTC",
      "Severity": "Error",
      "Operation": "Deploy"
    },
    "data": {
      "Deployed data": "[asm, 31]",
      "fabric": "pmn-soln",
      "deployment type": "asm",
      "vrf": "all vrfs",
      "switch-ip": "172.31.147.161"
    }
  }
}

```

ASM group-ranges – Undeploy

Key	asm.
Payload	<pre> { "messageId": 8001, "routingKey": "information.com.cisco.dcnm.event.pmn.undeploy.asm", "header": { "Type": "asm", "User": "Internal", "Operation Status": "Success", "Event": "asm [Count:2(asm.....)] Undeployment in VRF: 'test_pmn' in Fabric: 'pmn- soln' on switch: 172.31.204.28", "Sent At": "2021-07-29, 18:09:55 UTC", "Severity": "Information", "Operation": "Undeploy" }, "data": { "Deployed data": "[asm, 31]", "fabric": "pmn-soln", "deployment type": "asm", "vrf": "all vrfs", "switch-ip": "172.31.204.28" } } </pre>

Unicast Bandwidth

Deploy Success

Key	unicast_bw.
Payload	<pre>{ "messageId": 8000, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.unicast_bw", "header": { "Type": "unicast_bw", "User": "Internal", "Operation Status": "Success", "Event": "unicast_bw [Count:2(unicast_bw.....)] Deployment in VRF: 'test_pmn' in Fabric: 'pmn-soln' on switch: 172.31.203.171", "Sent At": "2021-07-29, 17:57:55 UTC", "Severity": "Information", "Operation": "Deploy" }, "data": { "Deployed data": "[unicast_bw, 31]", "fabric": "pmn-soln", "deployment type": "unicast_bw", "vrf": "all vrfs", "switch-ip": "172.31.203.171" } }</pre>

Deploy Failure

Key	unicast_bw.
Payload	<pre>{ "messageId": 8100, "routingKey": "error.com.cisco.dcnm.event.pmn.deploy.unicast_bw", "header": { "Type": "unicast_bw", "User": "Internal", "Operation Status": "Failure", "Event": "unicast_bw [Count:2(unicast_bw.....)] Deployment failed in VRF: 'test_pmn' in Fabric: 'pmn-soln' on switch: 172.31.147.161, Reason: Invalid request. dn 'sys/nbm/conf/global/dom-test_pmn' does not match naming properties specified 'sys/nbm/conf/global/dom-test_pmn/global'", "Sent At": "2021-07-29, 18:05:06 UTC", "Severity": "Error", "Operation": "Deploy" }, "data": { "Deployed data": "[unicast_bw, 31]", "fabric": "pmn-soln", "deployment type": "unicast_bw", "vrf": "all vrfs", "switch-ip": "172.31.147.161" } }</pre>

Flow Policy

```
}
}
```

Undeploy

Key	unicast_bw.
Payload	<pre>{ "messageld": 8000, "routingKey": "information.com.cisco.dcnm.event.pmn.undeploy.unicast_bw", "header": { "Type": "unicast_bw", "User": "Internal", "Operation Status": "Success", "Event": "unicast_bw [Count:2(unicast_bw.....)] Undeployment in VRF: 'test_pmn' in Fabric: 'pmn-soln' on switch: 172.31.204.97", "Sent At": "2021-07-29, 18:09:44 UTC", "Severity": "Information", "Operation": "Undeploy" }, "data": { "Deployed data": "[unicast_bw, 31]", "fabric": "pmn-soln", "deployment type": "unicast_bw", "vrf": "all vrfs", "switch-ip": "172.31.204.97" } }</pre>

Flow Policy

Key	flowPolicy.
Payload	<pre>{ "messageld": 3106, "routingKey": "error.com.cisco.dcnm.event.pmn.undeploy.flowpolicy", "header": { "Type": "FlowPolicy", "User": "Internal", "Operation Status": "Failure", "Event": "FlowPolicy [Default] Undeployment failed in VRF: 'test_pmn' in Fabric: 'pmn-soln' on switch: 172.31.149.99, Reason: org.springframework.web.client.ResourceAccessException: I/O error on POST request for \"https://dcnm-sim-master.cisco-dcnm.svc:9443/sim/job\": Timeout waiting for connection from pool; nested exception is org.apache.http.conn.ConnectionPoolTimeoutException: Timeout waiting for connection from pool", "Sent At": "2021-07-29, 18:09:44 UTC", "Severity": "Error", "Operation": "UnDeploy" }, "data": {</pre>

Bandwidth Enabled

```

    "Deployed data" : "[Default]",
    "fabric" : "pmn-soln",
    "deployment type" : "FlowPolicy",
    "vrf" : "all vrfs",
    "switch-ip" : "172.31.149.99"
  }
}

```

Bandwidth Enabled

Deploy Success

Key	bw_enabled.
Payload	<pre> { "messageId" : 8004, "routingKey" : "information.com.cisco.dcnm.event.pmn.deploy.bw_enabled", "header" : { "Type" : "bw_enabled", "User" : "Internal", "Operation Status" : "Success", "Event" : "bw_enabled [Count:2(bw_enabled.....)] Deployment in VRF: 'test_pmn' in Fabric: 'pmn-soln' on switch: 172.31.149.97", "Sent At" : "2021-07-29, 17:57:57 UTC", "Severity" : "Information", "Operation" : "Deploy" }, "data" : { "Deployed data" : "[bw_enabled, 31]", "fabric" : "pmn-soln", "deployment type" : "bw_enabled", "vrf" : "all vrfs", "switch-ip" : "172.31.149.97" } } </pre>

Deploy Failed

Key	bw_enabled.
Payload	<pre> { "messageId" : -1, "routingKey" : "error.com.cisco.dcnm.event.pmn.deploy.bw_enabled", "header" : { "Type" : "bw_enabled", "User" : "Internal", "Operation Status" : "Failure", "Event" : "bw_enabled [Count:2(bw_enabled.....)] Deployment failed in VRF: 'test_pmn' in Fabric: 'pmn-soln' on switch: 172.31.204.98, Reason: unknown attribute 'resBwRxOnly' in element 'nbmGlobalConfig'", "Sent At" : "2021-07-29, 17:57:58 UTC", "Severity" : "Error", </pre>

Host Policy

```

    "Operation": "Deploy"
  },
  "data": {
    "Deployed data": "[bw_enabled, 31]",
    "fabric": "pmn-soln",
    "deployment type": "bw_enabled",
    "vrf": "all vrfs",
    "switch-ip": ""
  }
}

```

Undeploy

Key

bw_enabled.

Payload

```

{
  "messageId": 8004,
  "routingKey": "information.com.cisco.dcnm.event.pmn.undeploy.bw_enabled",
  "header": {
    "Type": "bw_enabled",
    "User": "Internal",
    "Operation Status": "Success",
    "Event": "bw_enabled [] Undeployment in VRF: 'default' in Fabric: 'pmn-fnc' on switch: 172.31.148.35",
    "Sent At": "2021-08-17, 20:52:16 UTC",
    "Severity": "Information",
    "Operation": "Undeploy"
  },
  "data": {
    "Deployed data": "{ \"nbmGlobalConfig\" : {\"attributes\":{\"resBwRxOnly\": \"DISABLED\"}}}",
    "fabric": "pmn-fnc",
    "deployment type": "bw_enabled",
    "vrf": "default",
    "switch-ip": "172.31.148.35"
  }
}

```

Host Policy

Create Host Policy – Sender

Key

HostPolicy.

Payload

```

{
  "messageId": 2000,
  "routingKey": "information.com.cisco.dcnm.event.pmn.create.hostpolicy",
  "header": {
    "Type": "HostPolicy",
    "User": "Internal",
    "Operation Status": "Success",
  }
}

```

Host Policy

```

    "Event": "Host policy 'abc10' in VRF 'default' in Fabric 'pmn-soln' successfully saved
by admin",
    "Sent At": "2021-07-29, 16:03:06 UTC",
    "Severity": "Information",
    "Operation": "Create"
  },
  "data": {
    "sequenceNumber": "4",
    "policyName": "abc10",
    "fabric": "pmn-soln",
    "permit": "true",
    "hostRole": "Sender",
    "vrf": "default",
    "message": "Host policy 'abc10' in VRF 'default' in Fabric 'pmn-soln' successfully
saved by admin",
    "multicast": "224.1.1.10",
    "senderIp": "10.1.1.10",
    "mask": "32",
    "receiverIp": ""
  }
}

```

Create Host Policy – Receiver

Key

HostPolicy.

Payload

```

{
  "messageId": 2000,
  "routingKey": "information.com.cisco.dcnm.event.pmn.create.hostpolicy",
  "header": {
    "Type": "HostPolicy",
    "User": "Internal",
    "Operation Status": "Success",
    "Event": "Host policy 'rcr_abc10' in VRF 'default' in Fabric 'pmn-soln' successfully
saved by admin",
    "Sent At": "2021-07-29, 16:07:34 UTC",
    "Severity": "Information",
    "Operation": "Create"
  },
  "data": {
    "sequenceNumber": "1",
    "policyName": "rcr_abc10",
    "fabric": "pmn-soln",
    "permit": "true",
    "hostRole": "Receiver-Local",
    "vrf": "default",
    "message": "Host policy 'rcr_abc10' in VRF 'default' in Fabric 'pmn-soln' successfully
saved by admin",
    "multicast": "224.1.1.10",
    "senderIp": "10.1.1.11",
    "mask": "32",
    "receiverIp": "10.1.1.10"
  }
}

```

Create Host Policy – Deploy

Key	HostPolicy.
Payload	<pre>{ "messageId": 2006, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Success", "Event": "HostPolicy [abc10] Deployment in VRF: 'default' in Fabric: 'pmn-soln' on switch: 172.31.203.173", "Sent At": "2021-07-29, 16:03:13 UTC", "Severity": "Information", "Operation": "Deploy" }, "data": { "Deployed data": "[abc10]", "fabric": "pmn-soln", "deployment type": "HostPolicy", "vrf": "all vrfs", "switch-ip": "172.31.203.173" } }</pre>

Key	HostPolicy.
Payload	<pre>{ "messageId": 2006, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Success", "Event": "HostPolicy [rcr_abc10] Deployment in VRF: 'default' in Fabric: 'pmn-soln' on switch: 172.31.147.80", "Sent At": "2021-07-29, 16:07:40 UTC", "Severity": "Information", "Operation": "Deploy" }, "data": { "Deployed data": "[rcr_abc10]", "fabric": "pmn-soln", "deployment type": "HostPolicy", "vrf": "all vrfs", "switch-ip": "172.31.147.80" } }</pre>

Edit or Update Host Policy

Key	HostPolicy.
-----	-------------

Host Policy

Payload	<pre> { "messageId": 2001, "routingKey": "information.com.cisco.dcnm.event.pmn.update.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Success", "Event": "Host Policy with policy name 'rcr_abc10' in VRF 'default' in Fabric 'pmn- soln' successfully saved by admin", "Sent At": "2021-07-29, 16:10:47 UTC", "Severity": "Information", "Operation": "Update" }, "data": { "sequenceNumber": "1", "policyName": "rcr_abc10", "fabric": "pmn-soln", "permit": "false", "hostRole": "Receiver-Local", "vrf": "default", "message": "Host Policy with policy name 'rcr_abc10' in VRF 'default' in Fabric 'pmn-soln' successfully saved by admin", "multicast": "224.1.1.10", "senderIp": "10.1.1.11", "mask": "32", "receiverIp": "10.1.1.10" } } </pre>
---------	---

Deploy Host Policy

Key	HostPolicy.
Payload	<pre> { "messageId": 2006, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Success", "Event": "HostPolicy [rcr_abc10] Deployment in VRF: 'default' in Fabric: 'pmn-soln' on switch: 172.31.203.182", "Sent At": "2021-07-29, 16:10:55 UTC", "Severity": "Information", "Operation": "Deploy" }, "data": { "Deployed data": "[rcr_abc10]", "fabric": "pmn-soln", "deployment type": "HostPolicy", "vrf": "all vrfs", "switch-ip": "172.31.203.182" } } </pre>

Undeploy Host Policy

Key	HostPolicy.
Payload	<pre>{ "messageId": 2006, "routingKey": "information.com.cisco.dcnm.event.pmn.undeploy.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Success", "Event": "HostPolicy [rcr_abc10] Undeployment in VRF: 'default' in Fabric: 'pmn-soln' on switch: 172.31.203.171", "Sent At": "2021-07-29, 16:13:10 UTC", "Severity": "Information", "Operation": "UnDeploy" }, "data": { "Deployed data": "[rcr_abc10]", "fabric": "pmn-soln", "deployment type": "HostPolicy", "vrf": "all vrfs", "switch-ip": "172.31.203.171" } }</pre>

Delete Host Policy

Key	HostPolicy.
Payload	<pre>{ "messageId": 2002, "routingKey": "information.com.cisco.dcnm.event.pmn.delete.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Success", "Event": "Host policy rcr_abc10' in VRF 'default' in Fabric 'pmn-soln' deleted by admin", "Sent At": "2021-07-29, 16:21:10 UTC", "Severity": "Information", "Operation": "Delete" }, "data": { "sequenceNumber": "1", "policyName": "rcr_abc10", "fabric": "pmn-soln", "permit": "false", "hostRole": "Receiver-Local", "vrf": "default", "message": "Host policy rcr_abc10' in VRF 'default' in Fabric 'pmn-soln' deleted by admin", "multicast": "224.1.1.10", "senderIp": "10.1.1.11", } }</pre>

Host Policy

```

    "mask": "32",
    "receiverIp": "10.1.1.10"
  }
}

```

Host Policy Failure – Create

Key	HostPolicy.
Payload	<pre> { "messageId": 2105, "routingKey": "error.com.cisco.dcnm.event.pmn.deploy.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Failure", "Event": "HostPolicy [sdr1] Deployment failed in VRF: 'default' in Fabric: 'pmn-fnc' on switch: 172.31.148.36, Failed Policy Name: sdr1 ERROR: Only permission can be modified for an existing policy. To change other elements, please create a new policy, and delete the existing one.\\nfaulty_dn=sys/nbm/conf/hostpolicytable/dom- default/sender/seq-10", "Sent At": "2021-08-17, 16:37:09 UTC", "Severity": "Error", "Operation": "Deploy" }, "data": { "Deployed data": "[sdr1]", "fabric": "pmn-fnc", "deployment type": "HostPolicy", "vrf": "all vrfs", "switch-ip": "172.31.148.36" } } </pre>

Host Policy Failure – Delete

Key	HostPolicy.
Payload	<pre> { "messageId": 2105, "routingKey": "error.com.cisco.dcnm.event.pmn.undeploy.hostpolicy", "header": { "Type": "HostPolicy", "User": "Internal", "Operation Status": "Failure", "Event": "HostPolicy [sdr1] Undeployment failed in VRF: 'default' in Fabric: 'pmn-fnc' on switch: 172.31.148.36, Reason: Failed to execute DME request. Failed to get DME auth token. Post \"https://172.31.148.36/api/aaaLogin.json\": dial tcp 172.31.148.36:443: connect: connection refused", "Sent At": "2021-08-17, 16:40:56 UTC", "Severity": "Error", "Operation": "UnDeploy" }, "data": { </pre>

Flow Policy

```

    "Deployed data": "[sdr1]",
    "fabric": "pmn-fnc",
    "deployment type": "HostPolicy",
    "vrf": "all vrfs",
    "switch-ip": "172.31.148.36"
  }
}

```

Flow Policy

Default Flow Policy – Edit

Key	FlowPolicy.
Payload	<pre> { "messageId": 3006, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.flowpolicy", "header": { "Type": "FlowPolicy", "User": "Internal", "Operation Status": "Success", "Event": "FlowPolicy [Default] Deployment in VRF: 'default' in Fabric: 'pmn-fnc' on switch: 172.31.148.36", "Sent At": "2021-08-17, 20:54:10 UTC", "Severity": "Information", "Operation": "Deploy" }, "data": { "Deployed data": "[Default]", "fabric": "pmn-fnc", "deployment type": "FlowPolicy", "vrf": "all vrfs", "switch-ip": "172.31.148.36" } } </pre>

Default Flow Policy – Deploy

Key	FlowPolicy
Payload	<pre> { "messageId": 3006, "routingKey": "information.com.cisco.dcnm.event.pmn.deploy.flowpolicy", "header": { "Type": "FlowPolicy", "User": "Internal", "Operation Status": "Success", "Event": "FlowPolicy [Default] Deployment in VRF: 'default' in Fabric: 'rolal-fnc' on switch: 172.31.149.58", "Sent At": "2021-07-29, 20:12:39 UTC", "Severity": "Information", </pre>

Flow Policy

```

    "Operation": "Deploy"
  },
  "data": {
    "Deployed data": "[Default]",
    "fabric": "rolal-fnc",
    "deployment type": "FlowPolicy",
    "vrf": "all vrfs",
    "switch-ip": "172.31.149.58"
  }
}

```

Default Flow Policy - Undeploy

Key	FlowPolicy.
Payload	<pre> { "messageId": 3006, "routingKey": "information.com.cisco.dcnm.event.pmn.undeploy.flowpolicy", "header": { "Type": "FlowPolicy", "User": "Internal", "Operation Status": "Success", "Event": "FlowPolicy [Default] Undeployment in VRF: 'default' in Fabric: 'rolal-fnc' on switch: 172.31.148.35", "Sent At": "2021-07-29, 20:14:10 UTC", "Severity": "Information", "Operation": "UnDeploy" }, "data": { "Deployed data": "[Default]", "fabric": "rolal-fnc", "deployment type": "FlowPolicy", "vrf": "all vrfs", "switch-ip": "172.31.148.35" } } </pre>

Custom Flow Policy - Create

Key	FlowPolicy.
Payload	<pre> { "messageId": 3000, "routingKey": "information.com.cisco.dcnm.event.pmn.create.flowpolicy", "header": { "Type": "FlowPolicy", "User": "Internal", "Operation Status": "Success", "Event": "Flow Policy with policy name 'testflowpolicy' in VRF 'default' in Fabric 'pmn-fnc' successfully created by admin", "Sent At": "2021-08-17, 20:54:59 UTC", "Severity": "Information", "Operation": "Create" }, </pre>

Flow Policy

```

" data": {
  " policer": " Enabled",
  " dscp": " Best Effort",
  " policyName": " testflowpolicy",
  " bandwidth": " 1gbps",
  " fabric": " pmn-fnc",
  " link": " https://<DCNM_IP>/appcenter/cisco/dcnm/v1/pmn/rest/pmn/fabrics/pmn-
fnc/vrfs/default/flowpolicies/testflowpolicy",
  " vrf": " default",
  " message": " Flow Policy with policy name 'testflowpolicy' in VRF 'default' in Fabric
'pmn-fnc' successfully created by admin",
  " multicastRangeList": [
    {
      " endIP": " 224.1.1.10",
      " deleted": false,
      " beginIP": " 224.1.1.1",
      " flowPriority": " DEFAULT"
    }
  ]
}
}

```

Custom Flow Policy – Deploy

Key	FlowPolicy.
Payload	<pre> { " messageId": 3006, " routingKey": " information.com.cisco.dcnm.event.pmn.deploy.flowpolicy", " header": { " Type": " FlowPolicy", " User": " Internal", " Operation Status": " Success", " Event": " FlowPolicy [fp_video] Deployment in VRF: 'default' in Fabric: 'rolal-fnc' on switch: 172.31.149.58", " Sent At": " 2021-07-29, 20:16:30 UTC", " Severity": " Information", " Operation": " Deploy" }, " data": { " Deployed data": " [fp_video]", " fabric": " rolal-fnc", " deployment type": " FlowPolicy", " vrf": " all vrfs", " switch-ip": " 172.31.149.58" } } </pre>

Edit Flow Policy

Key	FlowPolicy.
Payload	{

Flow Policy

```

    "messageId" : 3001,
    "routingKey" : "information.com.cisco.dcnm.event.pmn.update.flowpolicy",
    "header" : {
      "Type" : "FlowPolicy",
      "User" : "Internal",
      "Operation Status" : "Success",
      "Event" : "Flow Policy with policy name 'testflowpolicy' in VRF 'default' in Fabric 'pmn-
fnc' successfully updated by admin",
      "Sent At" : "2021-08-17, 20:55:36 UTC",
      "Severity" : "Information",
      "Operation" : "Update"
    },
    "data" : {
      "policer" : "Disabled",
      "dscp" : "Best Effort",
      "policyName" : "testflowpolicy",
      "bandwidth" : "1mbps",
      "fabric" : "pmn-fnc",
      "link" : "https://<DCNM_IP>/appcenter/cisco/dcnm/v1/pmn/rest/pmn/fabrics/pmn-
fnc/vrfs/default/flowpolicies/testflowpolicy",
      "vrf" : "default",
      "message" : "Flow Policy with policy name 'testflowpolicy' in VRF 'default' in Fabric
'pmn-fnc' successfully updated by admin",
      "multicastRangeList" : [
        {
          "endIP" : "224.1.1.10",
          "deleted" : false,
          "beginIP" : "224.1.1.1",
          "flowPriority" : "DEFAULT"
        }
      ]
    }
  }
}

```

Delete Flow Policy

Key

FlowPolicy.

Payload

```

{
  "messageId" : 3002,
  "routingKey" : "information.com.cisco.dcnm.event.pmn.delete.flowpolicy",
  "header" : {
    "Type" : "FlowPolicy",
    "User" : "Internal",
    "Operation Status" : "Success",
    "Event" : "Flow Policy with policy name 'testflowpolicy' in VRF 'default' in Fabric
'pmn-fnc' successfully deleted by admin",
    "Sent At" : "2021-08-17, 20:58:02 UTC",
    "Severity" : "Information",
    "Operation" : "Delete"
  },
  "data" : {
    "policer" : "Disabled",
    "policyName" : "testflowpolicy",
    "bandwidth" : "1mbps",

```

Host Alias

```

    "fabric": "pmn-fnc",
    "vrf": "default",
    "message": "Flow Policy with policy name 'testflowpolicy' in VRF 'default' in Fabric
'pmn-fnc' successfully deleted by admin",
    "multicastRangeList": [
      {
        "endIP": "224.1.1.10",
        "deleted": false,
        "beginIP": "224.1.1.1",
        "flowPriority": "DEFAULT"
      }
    ]
  }
}

```

Host Alias

Create

Key	HostAlias.
Payload	<pre> { "messageId": 7000, "routingKey": "information.com.cisco.dcnm.event.pmn.create.hostalias", "header": { "Type": "HostAlias", "User": "Internal", "Operation Status": "Success", "Event": "Host Alias with alias name 'sdr_inat1' in VRF 'default' in Fabric 'pmn-soln- readonly' successfully created by admin", "Sent At": "2021-08-05, 16:08:45 UTC", "Severity": "Information", "Operation": "Create" }, "data": { "fabric": "pmn-soln-readonly", "name": "sdr_inat1", "ipAddress": "10.32.25.10", "link": "https://<DCNM_IP>/appcenter/cisco/dcnm/v1/pmn/rest/pmn/fabrics/pmn- soln-readonly/vrfs/default/hostaliases/sdr_inat1", "vrf": "default", "message": "Host Alias with alias name 'sdr_inat1' in VRF 'default' in Fabric 'pmn- soln-readonly' successfully created by admin" } } </pre>

Update/Edit

Key	HostAlias
Payload	{

Host Alias

```

    "messageId": 7001,
    "routingKey": "information.com.cisco.dcnm.event.pmn.update.hostalias",
    "header": {
      "Type": "HostAlias",
      "User": "Internal",
      "Operation Status": "Success",
      "Event": "Host Alias with original name and IP address sdr_inat1, (10.32.25.10)
updated to sdr_inat2, (10.32.25.12) in VRF 'default' in Fabric 'pmn-soln-readonly' by
admin",
      "Sent At": "2021-08-05, 16:09:03 UTC",
      "Severity": "Information",
      "Operation": "Update"
    },
    "data": {
      "fabric": "pmn-soln-readonly",
      "name": "sdr_inat2",
      "ipAddress": "10.32.25.12",
      "link": "https://<DCNM_IP>/appcenter/cisco/dcnm/v1/pmn/rest/pmn/fabrics/pmn-
soln-readonly/vrfs/default/hostaliases/sdr_inat2",
      "vrf": "default",
      "message": "Host Alias with original name and IP address sdr_inat1, (10.32.25.10)
updated to sdr_inat2, (10.32.25.12) in VRF 'default' in Fabric 'pmn-soln-readonly' by
admin"
    }
  }
}

```

Delete

Key

HostAlias

Payload

```

{
  "messageId": 7002,
  "routingKey": "information.com.cisco.dcnm.event.pmn.delete.hostalias",
  "header": {
    "Type": "HostAlias",
    "User": "Internal",
    "Operation Status": "Success",
    "Event": "Host Alias with name 'sdr_inat2' in VRF 'default' in Fabric 'pmn-soln-
readonly' deleted by admin",
    "Sent At": "2021-08-05, 16:09:36 UTC",
    "Severity": "Information",
    "Operation": "Delete"
  },
  "data": {
    "fabric": "pmn-soln-readonly",
    "name": "sdr_inat2",
    "ipAddress": "10.32.25.12",
    "vrf": "default",
    "message": "Host Alias with name 'sdr_inat2' in VRF 'default' in Fabric 'pmn-soln-
readonly' deleted by admin"
  }
}

```

Flow Alias

Create

Key	FlowAlias.
Payload	<pre>{ "messageId": 4000, "routingKey": "information.com.cisco.dcnm.event.pmn.create.flowalias", "header": { "Type": "FlowAlias", "User": "Internal", "Operation Status": "Success", "Event": "Flow alias with alias name '232_nat1' in VRF 'default' in fabric 'pmn-soln-readonly' successfully created by admin", "Sent At": "2021-08-05, 16:06:58 UTC", "Severity": "Information", "Operation": "Create" }, "data": { "fabric": "pmn-soln-readonly", "name": "232_nat1", "description": "", "vrf": "default", "message": "Flow alias with alias name '232_nat1' in VRF 'default' in fabric 'pmn-soln-readonly' successfully created by admin", "multicastIp": "232.232.5.1" } }</pre>

Update/Edit

Key	FlowAlias.
Payload	<pre>{ "messageId": 4001, "routingKey": "information.com.cisco.dcnm.event.pmn.update.flowalias", "header": { "Type": "FlowAlias", "User": "Internal", "Operation Status": "Success", "Event": "Flow alias updated with alias name '232_nat2' in VRF 'default' in fabric 'pmn-soln-readonly' by admin", "Sent At": "2021-08-05, 16:07:21 UTC", "Severity": "Information", "Operation": "Update" }, "data": { "fabric": "pmn-soln-readonly", "name": "232_nat2", "description": "", "vrf": "default", "message": "Flow alias updated with alias name '232_nat2' in VRF 'default' in fabric</pre>

Hosts - Discovered Hosts

```
'pmn-soln-readonly' by admin",
  "multicastIp": " 232.232.5.2"
}
}
```

Delete

Key

FlowAlias.

Payload

```
{
  "messageId": 4002,
  "routingKey": "information.com.cisco.dcnm.event.pmn.delete.flowalias",
  "header": {
    "Type": "FlowAlias",
    "User": "Internal",
    "Operation Status": "Success",
    "Event": "Flow alias deleted with name '232_nat2' in VRF 'default' in fabric 'pmn-soln-readonly' by admin",
    "Sent At": "2021-08-05, 16:07:30 UTC",
    "Severity": "Information",
    "Operation": "Delete"
  },
  "data": {
    "fabric": "pmn-soln-readonly",
    "name": "232_nat2",
    "description": "",
    "vrf": "default",
    "message": "Flow alias deleted with name '232_nat2' in VRF 'default' in fabric 'pmn-soln-readonly' by admin",
    "multicastIp": " 232.232.5.2"
  }
}
```

Hosts - Discovered Hosts

ARP Endpoints - Create

Key

Host.

Payload

```
{
  "messageId": 1005,
  "routingKey": "information.com.cisco.dcnm.event.pmn.discover.host",
  "header": {
    "Type": "Host",
    "User": "Internal",
    "Operation Status": "Success",
    "Event": "Host:10.35.24.10 Discovered Source:10.35.24.10 group: in VRF 'default' in fabric 'pmn-soln'",
    "Sent At": "2021-07-30, 21:43:35 UTC",
    "Severity": "Information",
    "Operation": "Discover"
  },
}
```

```

    "data": {
      "role": " ARP",
      "Switch time": " Fri, Jul 30 2021 21:43:03 (UTC)",
      "ipAddress": " 10.35.24.10",
      "discoverd by": "",
      "vrf": " default",
      "source": " 10.35.24.10",
      "message": " Host:10.35.24.10 Discovered Source:10.35.24.10 group: in VRF
'default' in fabric 'pmn-soln",
      "interface": " Ethernet1/24",
      "mac": " 00:10:94:00:01:6C",
      "switch": " LEAF35-PMN-SOLN-WOLFRIDGE",
      "fabric": " pmn-soln",
      "fault reason": "",
      "name": " Host-10.35.24.10",
      "group": ""
    }
  }
}

```

ARP Endpoints – Delete

Key	Host.
Payload	<pre> { "messageId": 1002, "routingKey": " information.com.cisco.dcnm.event.pmn.delete.host", "header": { "Type": " Host", "User": " Internal", "Operation Status": " Success", "Event": " Host:10.35.24.10 Deleted Source:10.35.24.10 group: in VRF 'default' in fabric 'pmn-soln", "Sent At": " 2021-07-30, 21:45:37 UTC", "Severity": " Information", "Operation": " Delete" }, "data": { "role": " ARP", "Switch time": " Fri, Jul 30 2021 21:43:03 (UTC)", "ipAddress": " 10.35.24.10", "discoverd by": "", "vrf": " default", "source": " 10.35.24.10", "message": " Host:10.35.24.10 Deleted Source:10.35.24.10 group: in VRF 'default' in fabric 'pmn-soln", "interface": " Ethernet1/24", "mac": " 00:10:94:00:01:6C", "switch": " LEAF35-PMN-SOLN-WOLFRIDGE", "fabric": " pmn-soln", "fault reason": "", "name": " Host-10.35.24.10", "group": "" } } </pre>

ARP Endpoints – Sender/Create

Key	Host.
Payload	<pre>{ "messageId": 1005, "routingKey": "information.com.cisco.dcnm.event.pmn.discover.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:10.1.24.10 Discovered Source:10.1.24.10 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "Sent At": "2021-07-30, 20:44:11 UTC", "Severity": "Information", "Operation": "Discover" }, "data": { "role": "Sender", "Switch time": "Fri, Jul 30 2021 20:43:12 (UTC)", "ipAddress": "10.1.24.10", "discoverd by": "", "vrf": "default", "source": "10.1.24.10", "message": "Host:10.1.24.10 Discovered Source:10.1.24.10 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "interface": "Ethernet1/24", "mac": "", "switch": "LEAF01-PMN-SOLN-DEERVALLEY", "external": "NO", "fabric": "pmn-soln", "fault reason": "NONE", "name": "Host-10.1.24.10", "group": "224.0.255.1" } }</pre>

ARP Endpoints – Sender/Delete

Key	Host.
Payload	<pre>{ "messageId": 1002, "routingKey": "information.com.cisco.dcnm.event.pmn.delete.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:255.255.255.255 Deleted Source:10.1.24.10 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "Sent At": "2021-07-30, 20:50:16 UTC", "Severity": "Information", "Operation": "Delete" }, "data": {</pre>

```

    "role": "Static Receiver",
    "Switch time": "Fri, Jul 30 2021 20:43:12 (UTC)",
    "ipAddress": "255.255.255.255",
    "discovered by": "NBM-STATIC",
    "vrf": "default",
    "source": "10.1.24.10",
    "message": "Host:255.255.255.255 Deleted Source:10.1.24.10 group:224.0.255.1 in
VRF 'default' in fabric 'pmn-soln",
    "interface": "DUMMY",
    "mac": "",
    "switch": "LEAF01-PMN-SOLN-DEERVALLEY",
    "external": "NO",
    "fabric": "pmn-soln",
    "fault reason": "NONE",
    "name": "Host-255.255.255.255",
    "group": "224.0.255.1"
  }
}

```

NBM Static Receiver – Create

Key	Host.
Payload	<pre> { "messageId": 1005, "routingKey": "information.com.cisco.dcnm.event.pmn.discover.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:10.35.24.1 Discovered Source:0.0.0.0 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "Sent At": "2021-07-30, 20:42:09 UTC", "Severity": "Information", "Operation": "Discover" }, "data": { "role": "Static Receiver", "Switch time": "Fri, Jul 30 2021 20:40:02 (UTC)", "ipAddress": "10.35.24.1", "discovered by": "NBM-STATIC", "vrf": "default", "source": "0.0.0.0", "message": "Host:10.35.24.1 Discovered Source:0.0.0.0 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "interface": "Ethernet1/24", "mac": "", "switch": "LEAF35-PMN-SOLN-WOLFRIDGE", "external": "NO", "fabric": "pmn-soln", "fault reason": "NONE", "name": "Host-10.35.24.1", "group": "224.0.255.1" } } </pre>

}

Stage-flow Receiver - Create

Key	Host.
Payload	<pre>{ "messageId": 1005, "routingKey": "information.com.cisco.dcnm.event.pmn.discover.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:255.255.255.255 Discovered Source:10.1.24.10 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "Sent At": "2021-07-30, 20:44:11 UTC", "Severity": "Information", "Operation": "Discover" }, "data": { "role": "Static Receiver", "Switch time": "Fri, Jul 30 2021 20:43:12 (UTC)", "ipAddress": "255.255.255.255", "discoverd by": "NBM-STATIC", "vrf": "default", "source": "10.1.24.10", "message": "Host:255.255.255.255 Discovered Source:10.1.24.10 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "interface": "DUMMY", "mac": "", "switch": "LEAF01-PMN-SOLN-DEERVALLEY", "external": "NO", "fabric": "pmn-soln", "fault reason": "NONE", "name": "Host-255.255.255.255", "group": "224.0.255.1" } }</pre>

Stage-flow Receiver - Delete

Key	Host.
Payload	<pre>{ "messageId": 1002, "routingKey": "information.com.cisco.dcnm.event.pmn.delete.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:10.35.24.1 Deleted Source:0.0.0.0 group:224.0.255.1 in VRF 'default' in fabric 'pmn-soln", "Sent At": "2021-07-30, 20:50:16 UTC", "Severity": "Information", } }</pre>

```

    "Operation": "Delete"
  },
  "data": {
    "role": "Static Receiver",
    "Switch time": "Fri, Jul 30 2021 20:40:02 (UTC)",
    "ipAddress": "10.35.24.1",
    "discoverd by": "NBM-STATIC",
    "vrf": "default",
    "source": "0.0.0.0",
    "message": "Host:10.35.24.1 Deleted Source:0.0.0.0 group:224.0.255.1 in VRF
'default' in fabric 'pmn-soln'",
    "interface": "Ethernet1/24",
    "mac": "",
    "switch": "LEAF35-PMN-SOLN-WOLFRIDGE",
    "external": "NO",
    "fabric": "pmn-soln",
    "fault reason": "NONE",
    "name": "Host-10.35.24.1",
    "group": "224.0.255.1"
  }
}

```

IGMP Dynamic Receiver - Create

Key	Host.
Payload	<pre> { "messageId": 1005, "routingKey": "information.com.cisco.dcnm.event.pmn.discover.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:10.35.23.10 Discovered Source:10.20.201.10 group:232.20.35.177 in VRF 'default' in fabric 'pmn-soln'", "Sent At": "2021-07-30, 21:04:32 UTC", "Severity": "Information", "Operation": "Discover" }, "data": { "role": "Dynamic Receiver", "Switch time": "Fri, Jul 30 2021 21:03:03 (UTC)", "ipAddress": "10.35.23.10", "discoverd by": "IGMP", "vrf": "default", "source": "10.20.201.10", "message": "Host:10.35.23.10 Discovered Source:10.20.201.10 group:232.20.35.177 in VRF 'default' in fabric 'pmn-soln'", "interface": "Ethernet1/23", "mac": "", "switch": "LEAF35-PMN-SOLN-WOLFRIDGE", "external": "NO", "fabric": "pmn-soln", "fault reason": "NONE", </pre>

```

    "name": "Host-10.35.23.10",
    "group": "232.20.35.177"
  }
}

```

IGMP Dynamic Receiver – Delete

Key	Host.
Payload	<pre> { "messageId": 1002, "routingKey": "information.com.cisco.dcnm.event.pmn.delete.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:10.35.23.10 Deleted Source:10.20.201.10 group:232.20.35.53 in VRF 'default' in fabric 'pmn-soln'", "Sent At": "2021-07-30, 21:17:02 UTC", "Severity": "Information", "Operation": "Delete" }, "data": { "role": "Dynamic Receiver", "Switch time": "Fri, Jul 30 2021 21:02:32 (UTC)", "ipAddress": "10.35.23.10", "discovered by": "IGMP", "vrf": "default", "source": "10.20.201.10", "message": "Host:10.35.23.10 Deleted Source:10.20.201.10 group:232.20.35.53 in VRF 'default' in fabric 'pmn-soln'", "interface": "Ethernet1/23", "mac": "", "switch": "LEAF35-PMN-SOLN-WOLFRIDGE", "external": "NO", "fabric": "pmn-soln", "fault reason": "NONE", "name": "Host-10.35.23.10", "group": "232.20.35.53" } } </pre>

WAN Sender – Create

Key	Host.
Payload	<pre> { "messageId": 1005, "routingKey": "information.com.cisco.dcnm.event.pmn.discover.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:11.4.19.1 Discovered Source:11.4.19.1 group:232.1.1.100 in VRF </pre>

```

'default' in fabric 'pmn-soln",
  "Sent At": " 2021-07-30, 21:53:44 UTC",
  "Severity": " Information",
  "Operation": " Discover"
},
"data": {
  "role": " External Sender",
  "Switch time": " Fri, Jul 30 2021 21:51:47 (UTC)",
  "ipAddress": " 11.4.19.1",
  "discoverd by": "",
  "vrf": " default",
  "source": " 11.4.19.1",
  "message": " Host:11.4.19.1 Discovered Source:11.4.19.1 group:232.1.1.100 in VRF
'default' in fabric 'pmn-soln",
  "interface": " Ethernet1/1",
  "mac": "",
  "switch": " LEAF28-PMN-SOLN-STMORITZ",
  "external": " YES",
  "fabric": " pmn-soln",
  "fault reason": " NONE",
  "name": " Host-11.4.19.1",
  "group": " 232.1.1.100"
}
}

```

WAN Sender - Delete

Key	Host.
Payload	<pre> { "messageId": 1002, "routingKey": " information.com.cisco.dcnm.event.pmn.delete.host", "header": { "Type": " Host", "User": " Internal", "Operation Status": " Success", "Event": " Host:11.4.19.1 Deleted Source:11.4.19.1 group:232.1.1.100 in VRF 'default' in fabric 'pmn-soln", "Sent At": " 2021-07-30, 22:09:58 UTC", "Severity": " Information", "Operation": " Delete" }, "data": { "role": " External Sender", "Switch time": " Fri, Jul 30 2021 21:51:47 (UTC)", "ipAddress": " 11.4.19.1", "discoverd by": "", "vrf": " default", "source": " 11.4.19.1", "message": " Host:11.4.19.1 Deleted Source:11.4.19.1 group:232.1.1.100 in VRF 'default' in fabric 'pmn-soln", "interface": " Ethernet1/1", "mac": "", "switch": " LEAF28-PMN-SOLN-STMORITZ", </pre>

Hosts - Discovered Hosts

```

    "external": "YES",
    "fabric": "pmn-soln",
    "fault reason": "NONE",
    "name": "Host-11.4.19.1",
    "group": "232.1.1.100"
  }
}

```

WAN Receiver - Create

Key	Host.
Payload	<pre> { "messageId": 1005, "routingKey": "information.com.cisco.dcnm.event.pmn.discover.host", "header": { "Type": "Host", "User": "Internal", "Operation Status": "Success", "Event": "Host:11.41.1.2 Discovered Source:10.35.23.10 group:232.1.1.1 in VRF 'default' in fabric 'pmn-soln'", "Sent At": "2021-07-30, 21:53:44 UTC", "Severity": "Information", "Operation": "Discover" }, "data": { "role": "", "Switch time": "Fri, Jul 30 2021 21:51:47 (UTC)", "ipAddress": "11.41.1.2", "discovered by": "PIM", "vrf": "default", "source": "10.35.23.10", "message": "Host:11.41.1.2 Discovered Source:10.35.23.10 group:232.1.1.1 in VRF 'default' in fabric 'pmn-soln'", "interface": "Ethernet1/1", "mac": "", "switch": "LEAF28-PMN-SOLN-STMORITZ", "external": "YES", "fabric": "pmn-soln", "fault reason": "NONE", "name": "Host-11.41.1.2", "group": "232.1.1.1" } } </pre>

WAN Receiver - Delete

Key	Host.
Payload	<pre> { "messageId": 1002, "routingKey": "information.com.cisco.dcnm.event.pmn.delete.host", "header": { "Type": "Host", </pre>

Fault Endpoints

```

    "User": "Internal",
    "Operation Status": "Success",
    "Event": "Host:11.41.1.2 Deleted Source:10.35.23.10 group:232.1.1.1 in VRF
'default' in fabric 'pmn-soln'",
    "Sent At": "2021-07-30, 22:09:58 UTC",
    "Severity": "Information",
    "Operation": "Delete"
  },
  "data": {
    "role": "",
    "Switch time": "Fri, Jul 30 2021 21:51:47 (UTC)",
    "ipAddress": "11.41.1.2",
    "discoverd by": "PIM",
    "vrf": "default",
    "source": "10.35.23.10",
    "message": "Host:11.41.1.2 Deleted Source:10.35.23.10 group:232.1.1.1 in VRF
'default' in fabric 'pmn-soln'",
    "interface": "Ethernet1/1",
    "mac": "",
    "switch": "LEAF28-PMN-SOLN-STMORITZ",
    "external": "YES",
    "fabric": "pmn-soln",
    "fault reason": "NONE",
    "name": "Host-11.41.1.2",
    "group": "232.1.1.1"
  }
}

```

Fault Endpoints

Create

Key	switch1^sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom-default/h-[10.4.12.10]-if-436213248/s-[0.0.0.0]-g-[224.1.1.34]]
Payload	<pre> { "faultReason": "No Bandwidth", "faultResolution": "Please consult documentation", "Switch": "SL02-LEAF04-2VRF", "dn": "sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom-default/h-[10.4.12.10]-if-436213248/s-[0.0.0.0]-g-[224.1.1.34]]", "TimestampReceived": 1629236351477, "Timestamp": 1629236172077, "status": "created" } </pre>

Delete

Key	switch1^sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom-default/h-[10.4.12.10]-if-436213248/s-[0.0.0.0]-g-[224.1.1.34]]
-----	--

Fault Endpoints

Payload	<pre>{ "Switch": "SL02-LEAF04-2VRF", "dn": "sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom- default/h-[10.4.12.10]-if-436213248/s-[0.0.0.0]-g-[224.1.1.48]]", "TimestampReceived": 1629236403450, "Timestamp": 1629236224052, "status": "deleted" }</pre>
---------	---

Flow Create

Key	Flow.
Payload	<pre>{ "messageId": 5000, "routingKey": "information.com.cisco.dcnm.event.pmn.create.flow", "header": { "Type": "Flow", "User": "Internal", "Operation Status": "Success", "Event": "Flow created for Source:10.1.24.10, Receiver:10.35.24.1, group:224.0.255.1 in VRF 'default' in Fabric 'pmn-soln", "Sent At": "2021-07-30, 20:44:12 UTC", "Severity": "Information", "Operation": "Create" }, "data": { "Receiver Switch time": "172.31.147.161: 2021-07-30, 20:39:42", "receiver-IP": "10.35.24.1", "receiver-host-interface": "Ethernet1/24", "vrf": "default", "sender-leaf": "172.31.204.98", "priority": "LOW", "sender-host-interface": "Ethernet1/24", "Sender Switch time": "172.31.204.98: 2021-07-30, 20:42:55", "sender-IP": "10.1.24.10", "fabric": "pmn-soln", "receiver-leaf": "172.31.147.161", "group": "224.0.255.1", "policy": "Default" } }</pre>

Flow Delete

Key	LEAF35-PMN-SOLN-WOLFRIDGE^sys/nbm/show/notify/dom-default/event-[FLOW:s-[10.20.100.1]-g-[232.1.1.1]/oif-[Eth1/24]]=
Payload	<pre>{ "Switch": "LEAF35-PMN-SOLN-WOLFRIDGE", "dn": "sys/nbm/show/notify/dom-default/event-[FLOW:s-[10.20.100.1]-g- [232.1.1.1]/oif-[Eth1/24]]", "TimestampReceived": 1627678730095, "Timestamp": 1627678709196, }</pre>

Fault Endpoints

```

    "status": "deleted"
  }

```

Flow Create IGMP Receiver

Key	Flow.
Payload	<pre> { "messageId": 5000, "routingKey": "information.com.cisco.dcnm.event.pmn.create.flow", "header": { "Type": "Flow", "User": "Internal", "Operation Status": "Success", "Event": "Flow created for Source:10.20.202.10, Receiver:10.35.23.10, group:232.20.35.121 in VRF 'default' in Fabric 'pmn-soln", "Sent At": "2021-07-30, 21:04:41 UTC", "Severity": "Information", "Operation": "Create" }, "data": { "Receiver Switch time": "172.31.147.161: 2021-07-30, 21:02:35", "receiver-IP": "10.35.23.10", "receiver-host-interface": "Ethernet1/23", "vrf": "default", "sender-leaf": "172.31.203.182", "priority": "LOW", "sender-host-interface": "Vlan202", "Sender Switch time": "172.31.203.182: 2021-07-30, 21:02:35", "sender-IP": "10.20.202.10", "fabric": "pmn-soln", "receiver-leaf": "172.31.147.161", "group": "232.20.35.121", "policy": "Default" } } </pre>

Flow Create WAN Sender

Key	Flow.
Payload	<pre> { "messageId": 5000, "routingKey": "information.com.cisco.dcnm.event.pmn.create.flow", "header": { "Type": "Flow", "User": "Internal", "Operation Status": "Success", "Event": "Flow created for Source:11.4.19.1, Receiver:255.255.255.255, group:232.1.1.100 in VRF 'default' in Fabric 'pmn-soln", "Sent At": "2021-07-30, 21:53:45 UTC", "Severity": "Information", "Operation": "Create" } } </pre>

Fault Endpoints

```

    },
    "data": {
      "Receiver Switch time": " 172.31.147.161: 2021-07-30, 21:51:26",
      "receiver-IP": " 255.255.255.255",
      "receiver-host-interface": " DUMMY",
      "vrf": " default",
      "sender-leaf": " 172.31.203.189",
      "priority": " LOW",
      "sender-host-interface": " Ethernet1/1",
      "Sender Switch time": " 172.31.203.189: 2021-07-30, 21:51:26",
      "sender-IP": " 11.4.19.1",
      "fabric": " pmn-soln",
      "receiver-leaf": " 172.31.147.161",
      "group": " 232.1.1.100",
      "policy": " Default"
    }
  }
}

```

Flow Delete WAN Sender

Key	Flow.
Payload	<pre> { "messageId": 5003, "routingKey": " information.com.cisco.dcnm.event.pmn.delete.flow", "header": { "Type": " Flow", "User": " Internal", "Operation Status": " Success", "Event": " Flow deleted for Source:11.4.19.1, Receiver:255.255.255.255, group:232.1.1.100 in VRF 'default' in Fabric 'pmn-soln'", "Sent At": " 2021-07-30, 22:09:59 UTC", "Severity": " Information", "Operation": " Delete" }, "data": { "Receiver Switch time": " 172.31.147.161: 2021-07-30, 21:51:26", "receiver-IP": " 255.255.255.255", "receiver-host-interface": " DUMMY", "vrf": " default", "sender-leaf": " 172.31.203.189", "priority": " LOW", "sender-host-interface": " Ethernet1/1", "Sender Switch time": " 172.31.203.189: 2021-07-30, 21:51:26", "sender-IP": " 11.4.19.1", "fabric": " pmn-soln", "receiver-leaf": " 172.31.147.161", "group": " 232.1.1.100", "policy": " Default" } } </pre>

Flow Create WAN Receiver

Key	Flow.
Payload	<pre>{ "messageId": 5000, "routingKey": "information.com.cisco.dcnm.event.pmn.create.flow", "header": { "Type": "Flow", "User": "Internal", "Operation Status": "Success", "Event": "Flow created for Source:10.35.23.10, Receiver:11.41.1.2, group:232.1.1.1 in VRF 'default' in Fabric 'pmn-soln", "Sent At": "2021-07-30, 21:53:45 UTC", "Severity": "Information", "Operation": "Create" }, "data": { "Receiver Switch time": "172.31.203.189: 2021-07-30, 21:51:37", "receiver-IP": "11.41.1.2", "receiver-host-interface": "Ethernet1/1", "vrf": "default", "sender-leaf": "172.31.147.161", "priority": "LOW", "sender-host-interface": "Ethernet1/23", "Sender Switch time": "172.31.147.161: 2021-07-30, 21:51:37", "sender-IP": "10.35.23.10", "fabric": "pmn-soln", "receiver-leaf": "172.31.203.189", "group": "232.1.1.1", "policy": "Default" } }</pre>

Flow Delete WAN Receiver

Key	Flow.
Payload	<pre>{ "messageId": 5003, "routingKey": "information.com.cisco.dcnm.event.pmn.delete.flow", "header": { "Type": "Flow", "User": "Internal", "Operation Status": "Success", "Event": "Flow deleted for Source:10.35.23.10, Receiver:11.41.1.2, group:232.1.1.1 in VRF 'default' in Fabric 'pmn-soln", "Sent At": "2021-07-30, 22:09:59 UTC", "Severity": "Information", "Operation": "Delete" }, "data": { "Receiver Switch time": "172.31.203.189: 2021-07-30, 21:51:37", "receiver-IP": "11.41.1.2", </pre>

```

    "receiver-host-interface": "Ethernet1/1",
    "vrf": "default",
    "sender-leaf": "172.31.147.161",
    "priority": "LOW",
    "sender-host-interface": "Ethernet1/23",
    "Sender Switch time": "172.31.147.161: 2021-07-30, 21:51:37",
    "sender-IP": "10.35.23.10",
    "fabric": "pmn-soln",
    "receiver-leaf": "172.31.203.189",
    "group": "232.1.1.1",
    "policy": "Default"
  }
}

```

RTP Packet Drop

Key	RTPPacketDrop.
Payload	<pre> { "messageId": 5203, "routingKey": "information.com.cisco.dcnm.event.pmn.delete.rtppacketdrop", "header": { "Type": "RTPPacketDrop", "User": "Internal", "Operation Status": "Success", "Event": "Flow Error deleted for Source:10.1.24.10:22401, Receiver:224.0.255.2:5004 on fabric:pmn-soln and vrf:default", "Sent At": "2021-07-30, 19:10:49 UTC", "Severity": "Information", "Operation": "Delete" }, "data": { "source-port": "22401", "bits-per-sec": "25389547", "packet-loss": "1", "start-time": "09:49:17 PST Jul 30 2021", "loss-start": "11:00:43 PST Jul 30 2021", "vrf": "default", "interface": "Ethernet1/50", "destination-ip": "224.0.255.2", "switch": "LEAF08-PMN-SOLN-HOMEWOOD", "protocol": "17", "destination-port": "5004", "packet-count": "14297328", "fabric": "pmn-soln", "source-ip": "10.1.24.10" } } </pre>

Real-Time Notification

Flow Provisional - Create

Key	LEAF35-PMN-SOLN-WOLFRIDGE^sys/nbm/show/notify/dom-default/event-[FLOW:s-[10.20.100.1]-g-[232.1.1.1]/oif-[Eth1/24]]
Payload	{ <pre>"identifier" : " FLOW:s-[10.20.100.1]-g-[232.1.1.1]/oif-[Eth1/24]", "reason" : " FLOW Provisioned Successfully", "Switch" : " LEAF35-PMN-SOLN-WOLFRIDGE", "dn" : " sys/nbm/show/notify/dom-default/event-[FLOW:s-[10.20.100.1]-g-[232.1.1.1]/oif-[Eth1/24]]", "TimestampReceived" : 1627678601522, "Timestamp" : 1627678580623, "status" : " created" </pre>

Flow Provisional - Delete

Key	LEAF20-PMN-SOLN-SUNDOWN^sys/nbm/show/notify/dom-default/event-[FLOW:s-[10.35.23.10]-g-[232.35.20.249]/oif-[Vlan208]]=
Payload	{ <pre>"Switch" : " LEAF20-PMN-SOLN-SUNDOWN", "dn" : " sys/nbm/show/notify/dom-default/event-[FLOW:s-[10.35.23.10]-g-[232.35.20.249]/oif-[Vlan208]]", "TimestampReceived" : 1627667127792, "Timestamp" : 1627522908039, "status" : " deleted" </pre>

Fault Notification - No Bandwidth

Key	LEAF01-PMN-SOLN-DEERVALLEY^sys/nbm/show/faults/dom-default/faults-[s-[12.1.10.10]-g-[233.11.2.44]]=
Payload	{ <pre>"faultReason" : " No Bandwidth", "faultResolution" : " Please consult documentation", "Switch" : " LEAF01-PMN-SOLN-DEERVALLEY", "dn" : " sys/nbm/show/faults/dom-default/faults-[s-[12.1.10.10]-g-[233.11.2.44]]", "TimestampReceived" : 1627666856894, "Timestamp" : 1627666103065, "status" : " created" </pre>

Fault Notification - Delete

Key	LEAF01-PMN-SOLN-DEERVALLEY^sys/nbm/show/faults/dom-default/faults-[s-
-----	---

Payload	<pre>[12.1.10.10]-g-[233.11.1.82]]= { "Switch": "LEAF01-PMN-SOLN-DEERVALLEY", "dn": "sys/nbm/show/faults/dom-default/faults-[s-[12.1.10.10]-g-[233.11.1.82]]", "TimestampReceived": 1627667133432, "Timestamp": 1627666110654, "status": "deleted" }</pre>
---------	--

Fault Notification - No Flow Policy

Key	<pre>switch1^sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom- default/h-[10.18.8.11]-if-0/g-[230.1.8.24]]=</pre>
Payload	<pre>{ "faultReason": "No Flow Policy", "faultResolution": "Please consult documentation", "Switch": "switch1", "dn": "sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom- default/h-[10.18.8.11]-if-0/g-[230.1.8.24]]", "TimestampReceived": 1627671997103, "Timestamp": 1627671528693, "status": "created" }</pre>

No Unicast Route

Key	<pre>SL02-LEAF04-2VRF^sys/nbm/show/faults/dom-default/faults- [sys/nbm/show/endpoints/dom-default/h-[10.4.100.10]-if-0/g-[224.1.1.1]]=</pre>
Payload	<pre>{ "faultReason": "No Unicast Route", "faultResolution": "Please consult documentation", "Switch": "SL02-LEAF04-2VRF", "dn": "sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom- default/h-[10.4.100.10]-if-0/g-[224.1.1.1]]", "TimestampReceived": 1629216102484, "Timestamp": 1629215922988, "status": "created" }</pre>

Sender Denied

Key	<pre>SL02-LEAF04-2VRF^sys/nbm/show/faults/dom-default/faults- [sys/nbm/show/endpoints/dom-default/h-[10.4.2.11]-if-0/g-[224.1.1.1]]=</pre>
Payload	<pre>{ "faultReason": "Sender Denied", "faultResolution": "Please consult documentation", "Switch": "SL02-LEAF04-2VRF", "dn": "sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom- default/h-[10.4.2.11]-if-0/g-[224.1.1.1]]", }</pre>

```

    "TimestampReceived": 1629216948284,
    "Timestamp": 1629216768859,
    "status": "created"
  }

```

TCAM Not Carved

Key	switch1^sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom-default/h-[10.3.3.10]-if-0/g-[224.1.1.100]]=
Payload	<pre> { "faultReason": " No TCAM Carved", "faultResolution": " Please consult documentation", "Switch": " switch1", "dn": " sys/nbm/show/faults/dom-default/faults-[sys/nbm/show/endpoints/dom-default/h-[10.3.3.10]-if-0/g-[224.1.1.100]]", "TimestampReceived": 1629218653504, "Timestamp": 1629218474113, "status": "created" } </pre>

NAT FlowPolicy Mismatch - Create

Key	switch1^sys/nbm/show/faults/dom-default/faults-[post_s-[10.2.100.1]-post_g-[225.255.255.1]-pre_s-[10.4.2.10]-pre_g-[224.255.255.1]-S[0]-D[0]-egress/if-[eth1/4]]=
Payload	<pre> { "faultReason": " Pre and Post Translation Flow BW Mismatch", "faultResolution": " Please consult documentation", "Switch": " switch1", "dn": " sys/nbm/show/faults/dom-default/faults-[post_s-[10.2.100.1]-post_g-[225.255.255.1]-pre_s-[10.4.2.10]-pre_g-[224.255.255.1]-S[0]-D[0]-egress/if-[eth1/4]]", "TimestampReceived": 1629232533230, "Timestamp": 1629232353834, "status": "created" } </pre>

NAT FlowPolicy Mismatch - Delete

Key	switch1^sys/nbm/show/faults/dom-default/faults-[post_s-[10.2.100.1]-post_g-[225.255.255.1]-pre_s-[10.4.2.10]-pre_g-[224.255.255.1]-S[0]-D[0]-egress/if-[eth1/4]]=
Payload	<pre> { "Switch": " switch1", "dn": " sys/nbm/show/faults/dom-default/faults-[post_s-[10.2.100.1]-post_g-[225.255.255.1]-pre_s-[10.4.2.10]-pre_g-[224.255.255.1]-S[0]-D[0]-egress/if-[eth1/4]]", "TimestampReceived": 1629232653257, "Timestamp": 1629232473859, } </pre>

Flow Utilization

```

    "status": "deleted"
  }

```

Flow Utilization

Flow Utilization less than 60%

Key	switch1^sys/nbm/show/notify/dom-default/event-[BW:s-10.3.3.10-g-224.1.1.100]
Payload	<pre> { "identifier": "BW:s-10.3.3.10-g-224.1.1.100", "reason": "Rate below 60%", "Switch": "switch1", "dn": "sys/nbm/show/notify/dom-default/event-[BW:s-10.3.3.10-g-224.1.1.100]", "TimestampReceived": 1629219104797, "Timestamp": 1629218925397, "status": "created" } </pre>

Flow Utilization over 100%

Key	switch1^sys/nbm/show/notify/dom-default/event-[BW:s-10.3.12.10-g-224.1.1.15]=
Payload	<pre> { "identifier": "BW:s-10.3.12.10-g-224.1.1.15", "reason": "Rate over 100%", "Switch": "switch1", "dn": "sys/nbm/show/notify/dom-default/event-[BW:s-10.3.12.10-g-224.1.1.15]", "TimestampReceived": 1629230151310, "Timestamp": 1629229971709, "status": "created" } </pre>

Link Utilization

Ingress Link Utilization above 60%

Key	switch1^sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-INGRESS]=
Payload	<pre> { "identifier": "INTF:eth1/12-INGRESS", "reason": "WARNING: INGRESS bw usage is at or above 60%", "Switch": "switch1", "dn": "sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-INGRESS]", "TimestampReceived": 1629230289185, "Timestamp": 1629230109792, "status": "created" } </pre>

Ingress Link Utilization above 75%

Key	switch1^sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-INGRESS]
Payload	<pre>{ "identifier": "INTF:eth1/12-INGRESS", "reason": "SEVERE: INGRESS bw usage is at or above 75%", "Switch": "switch1", "dn": "sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-INGRESS]", "TimestampReceived": 1629230520124, "Timestamp": 1629230340726, "status": "created" }</pre>

Ingress Link Utilization above 90%

Key	switch1^sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-INGRESS]=
Payload	<pre>{ "identifier": "INTF:eth1/12-INGRESS", "reason": "CRITICAL: INGRESS bw usage is at or above 90%", "Switch": "switch1", "dn": "sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-INGRESS]", "TimestampReceived": 1629230988331, "Timestamp": 1629230808932, "status": "created" }</pre>

Egress Link Utilization above 60%

Key	SL02-LEAF04-2VRF^sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-EGRESS]=
Payload	<pre>{ "identifier": "INTF:eth1/12-EGRESS", "reason": "WARNING: EGRESS bw usage is at or above 60%", "Switch": "SL02-LEAF04-2VRF", "dn": "sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-EGRESS]", "TimestampReceived": 1629230940898, "Timestamp": 1629230761502, "status": "created" }</pre>

Egress Link Utilization above 75%

Key	SL02-LEAF04-2VRF^sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-EGRESS]
Payload	<pre>{ "identifier": "INTF:eth1/12-EGRESS", "reason": "SEVERE: EGRESS bw usage is at or above 75%", }</pre>

NAT Mode

```

    "Switch": "SL02-LEAF04-2VRF",
    "dn": "sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-EGRESS]",
    "TimestampReceived": 1629230880888,
    "Timestamp": 1629230701491,
    "status": "created"
  }

```

Egress Link Utilization above 90%

Key SL02-LEAF04-2VRF^sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-EGRESS]

```

Payload
{
  "identifier": "INTF:eth1/12-EGRESS",
  "reason": "CRITICAL: EGRESS bw usage is at or above 90%",
  "Switch": "SL02-LEAF04-2VRF",
  "dn": "sys/nbm/show/notify/dom-default/event-[INTF:eth1/12-EGRESS]",
  "TimestampReceived": 1629230760854,
  "Timestamp": 1629230581458,
  "status": "created"
}

```

NAT Mode

Ingress NAT Mode - Create

```

Key mNatMode.
Payload
{
  "mode": "Ingress",
  "switchNameOrIP": "172.31.149.97",
  "link":
  "https://172.31.201.84/appcenter/cisco/dcnm/v1/pmn/rest/pmn/switches/172.31.149.97/vrfs/default/groups/224.0.0.0/masks/8/modes/Ingress/natmodes",
  "vrf": "default",
  "message": "'Ingress' Multicast NAT Mode for group '224.0.0.0' and mask '8' in VRF 'default' and switch '172.31.149.97' successfully created by admin",
  "group": "224.0.0.0",
  "mask": 8
}

```

Ingress NAT Mode -Deploy

```

Key mNatMode.
Payload
{
  "Deployed data": "[default:224.0.0.0/8_Ingress]",
  "fabric": "pmn-soln",
  "deployment type": "mNatMode",
  "vrf": "all vrfs",
}

```

NAT Mode

```

    "switch-ip": "172.31.149.97"
  }

```

Ingress NAT Mode - Undeploy

Key	mNatMode.
Payload	<pre> { "Deployed data": "[default:224.0.0.0/8_Ingress]", "fabric": "pmn-soln", "deployment type": "mNatMode", "vrf": "all vrfs", "switch-ip": "172.31.149.97" } </pre>

Ingress NAT Mode - Delete

Key	mNatMode
Payload	<pre> { "message": "1 Multicast NAT Mode has been successfully deleted by admin" } </pre>

Ingress NAT Mode - Failed Deploy

Key	mNatMode.
Payload	<pre> { "Deployed data": "[default:232.0.0.1/24_Ingress]", "fabric": "pmn-soln", "deployment type": "mNatMode", "vrf": "all vrfs", "switch-ip": "172.31.149.97" } </pre>

Egress NAT Mode - Create

Key	mNatMode.
Payload	<pre> { "mode": "Egress", "switchNameOrIP": "172.31.149.97", "link": "https://172.31.201.84/appcenter/cisco/dcnm/v1/pmn/rest/pmn/switches/172.31.149.97/vrfs/default/groups/232.0.0.0/masks/8/modes/Egress/natmodes", "vrf": "default", "message": "'Egress' Multicast NAT Mode for group '232.0.0.0' and mask '8' in VRF 'default' and switch '172.31.149.97' successfully created by admin", "group": "232.0.0.0", "mask": 8 } </pre>

NAT Mode

Egress NAT Mode- Deploy

Key	mNatMode.
Payload	{ "Deployed data": "[default:232.0.0.0/8_Egress]", "fabric": "pmn-soln", "deployment type": "mNatMode", "vrf": "all vrfs", "switch-ip": "172.31.149.97" }

Egress NAT Mode - Undeploy

Key	mNatMode.
Payload	{ "Deployed data": "[default:231.1.1.1/32_Egress]", "fabric": "pmn-soln", "deployment type": "mNatMode", "vrf": "all vrfs", "switch-ip": "172.31.149.97" }

Egress NAT Mode - Delete

Key	mNatMode.
Payload	{ "message": "1 Multicast NAT Mode has been successfully deleted by admin" }

Egress NAT Mode - Deploy Failure

Key	mNatMode.
Payload	{ "Deployed data": "[default:232.0.0.1/32_Egress]", "fabric": "pmn-soln", "deployment type": "mNatMode", "vrf": "all vrfs", "switch-ip": "172.31.149.97" }

Egress NAT Mode - Undeploy Failure

Key	mNatMode.
Payload	{ "Deployed data": "[default:232.0.0.0/8_Egress]", "fabric": "pmn-soln", "deployment type": "mNatMode", }

NAT Rule

```

    "vrf": "all vrfs",
    "switch-ip": "172.31.149.97"
  }

```

NAT Rule

Ingress NAT Rule – Create

Key	mNatRule.
Payload	<pre> { "destinationPort": 0, "switchNameOrIP": "172.31.149.97", "sourcePort": 25510, "vrf": "default", "message": "Multicast NAT Rule has been successfully created by admin", "mode": "Ingress", "groupMask": 24, "staticOif": "N/A", "postTranslationGroup": "225.255.1.0", "preTranslationSource": "10.32.1.10", "sourceMask": 32, "postTranslationSource": "10.32.255.1", "preTranslationGroup": "225.0.0.0" } </pre>

Ingress NAT Rule – Deploy

Key	mNatRule
Payload	<pre> { "Deployed data": "[105]", "fabric": "pmn-soln", "deployment type": "mNatRule", "vrf": "all vrfs", "switch-ip": "172.31.149.97" } </pre>

Ingress NAT Rule – Undeploy

Key	mNatRule.
Payload	<pre> { "Deployed data": "[105]", "fabric": "pmn-soln", "deployment type": "mNatRule", "vrf": "all vrfs", "switch-ip": "172.31.149.97" } </pre>

NAT Rule

Ingress NAT Rule – Delete

Key	mNatRule.
Payload	<pre>{ "message": " 1 Multicast NAT Rule has been successfully deleted by admin" }</pre>

Ingress NAT Rule – Deploy Failed

Key	mNatRule.
Payload	<pre>{ "Deployed data": "[107]", "fabric": " pmn-soln", "deployment type": " mNatRule", "vrf": "all vrfs", "switch-ip": " 172.31.149.97" }</pre>

Egress NAT Rule – Create

Key	mNatRule.
Payload	<pre>{ "destinationPort": 30000, "switchNameOrIP": " 172.31.149.97", "sourcePort": 10000, "link": " https://172.31.201.84/appcenter/cisco/dcnm/v1/pmn/rest/pmn/switches/ 172.31.149.97/vrfs/default/modes/Egress/preTranslationGroups/232.232.1.100/ postTranslationGroups/232.232.255.100/preTranslationSources/10.31.1.10/ postTranslationSources/10.32.100.1/groupMasks/32/sourceMasks/32/ sourcePorts/10000/destinationPorts/30000/staticOifs/Ethernet1/1/natrules", "vrf": " default", "message": " Multicast NAT Rule has been successfully created by admin", "mode": " Egress", "groupMask": 32, "staticOif": " Ethernet1/1", "postTranslationGroup": " 232.232.255.100", "preTranslationSource": " 10.31.1.10", "sourceMask": 32, "postTranslationSource": " 10.32.100.1", "preTranslationGroup": " 232.232.1.100" }</pre>

Egress NAT Rule – Deploy

Key	mNatRule.
Payload	<pre>{ "Deployed data": "[114]", "fabric": " pmn-soln", "deployment type": " mNatRule", }</pre>

NAT Mapping Configuration

```

    "vrf" : " all vrfs",
    "switch-ip" : " 172.31.149.97"
  }

```

Egress NAT Rule – Undeploy

Key	mNatRule.
Payload	<pre> { "Deployed data" : "[114]", "fabric" : " pmn-soln", "deployment type" : " mNatRule", "vrf" : " all vrfs", "switch-ip" : " 172.31.149.97" } </pre>

Egress NAT Rule – Delete

Key	mNatRule.
Payload	<pre> { "message" : " 1 Multicast NAT Rule has been successfully deleted by admin" } </pre>

Egress NAT Rule – Failure

Key	mNatRule.
Payload	<pre> { "Deployed data" : "[116]", "fabric" : " pmn-soln", "deployment type" : " mNatRule", "vrf" : " all vrfs", "switch-ip" : " 172.31.149.97" } </pre>

NAT Mapping Configuration

Egress Mapping Configuration – Create

Key	mNatEgressIfMap.
Payload	<pre> { "switchNameOrIP" : " 172.31.149.97", "egressInterfaces" : [" Ethernet1/1"], "link" : " https://172.31.201.84/appcenter/cisco/dcnm/v1/pmn/rest/pmn/switches/172.31.149.97/mapInterface/eth1/13/egressInterfaces/ethernet1/1/" } </pre>

NAT Mapping Configuration

```

    maxReplications/40/nategressifmaps",
    "mapInterface": "Ethernet1/13",
    "maxReplications": 40,
    "message": "Multicast NAT Egress Interface Mappings successfully created by admin"
  }

```

Egress Mapping Configuration – Deploy

Key	mNatEgressIfMap.
Payload	<pre> { "Deployed data": "[109]", "fabric": "pmn-soln", "deployment type": "mNatEgressIfMap", "vrf": "all vrfs", "switch-ip": "172.31.149.97" } </pre>

Egress Mapping Configuration – Update

Key	mNatEgressIfMap.
Payload	<pre> { "switchNameOrIP": "172.31.149.97", "egressInterfaces": ["Ethernet1/1", "Ethernet1/9"], "link": "https://172.31.201.84/appcenter/cisco/dcnm/v1/pmn/rest/pmn/switches/172.31.149.97/mapInterface/eth1/13/egressInterfaces/ethernet1/1,ethernet1/9/maxReplications/40/nategressifmaps", "mapInterface": "Ethernet1/13", "maxReplications": 40, "message": "Multicast NAT Egress Interface Mappings successfully updated by admin" } </pre>

Egress Mapping Configuration – Delete

Key	mNatEgressIfMap.
Payload	<pre> { "message": "1 Multicast NAT Egress Interface Mapping has been successfully deleted by admin" } </pre>

Egress Mapping Configuration – Undeploy

Key	mNatEgressIfMap.
Payload	<pre> { "Deployed data": "[111]", </pre>

NAT Mapping Configuration

```

    "fabric": "pmn-soln",
    "deployment type": "mNatEgressIfMap",
    "vrf": "all vrfs",
    "switch-ip": "172.31.149.97"
  }

```

Egress Mapping Configuration – Deploy Failure

Key	mNatEgressIfMap.
Payload	<pre> { "Deployed data": "[112]", "fabric": "pmn-soln", "deployment type": "mNatEgressIfMap", "vrf": "all vrfs", "switch-ip": "172.31.149.97" } </pre>

Egress Mapping Configuration – Undeploy Failure

Key	mNatEgressIfMap.
Payload	<pre> { "Deployed data": "[110]", "fabric": "pmn-soln", "deployment type": "mNatEgressIfMap", "vrf": "all vrfs", "switch-ip": "172.31.149.97" } </pre>

Egress Mapping Configuration – Create All Mappings

Key	mNatEgressIfMap.
Payload	<pre> { "switchNameOrIP": "172.31.149.97", "egressInterfaces": ["all"], "link": "https://172.31.201.84/appcenter/cisco/dcnm/v1/pmn/rest/pmn/switches/172.31.149.97/mapInterface/eth1/33/egressInterfaces/all/maxReplications/40/nategressifmaps", "mapInterface": "Ethernet1/33", "maxReplications": 40, "message": "Multicast NAT Egress Interface Mappings successfully created by admin" } </pre>

Egress Mapping Configuration – Deploy All INTF MAPPING

Key	mNatEgressIfMap.
Payload	<pre>{ "Deployed data": "[113]", "fabric": "pmn-soln", "deployment type": "mNatEgressIfMap", "vrf": "all vrfs", "switch-ip": "172.31.149.97" }</pre>

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