

使用策略將Catalyst許可證遷移到智慧許可

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簡介

本檔案介紹從Cisco IOS® XE 17.3.2及未來版本中的舊許可證機制遷移到新的「使用策略的智慧許可」機制後將會遇到的情況。

必要條件

需求

本文件沒有特定需求。

採用元件

本檔案中的資訊是根據以下硬體版本：

- Cisco Catalyst 9500
- Cisco Catalyst 9300

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

 註：方法和命令可應用於其他Catalyst 9000系列交換機。有關本文檔中提到的命令和配置，請參閱相應的配置指南。

目的

在Cisco IOS XE 17.3.2和17.4.1版本中，智慧許可功能已更改。不再需要向思科智慧軟體管理員 (CSSM)註冊裝置的授權，也不會在裝置離線時從CSSM保留特定授權(SLR)。Eval許可證也已被刪除。使用智慧許可策略時，所有配置的許可證從零天（安裝Cisco IOS XE 17.3.2或更高版本映像的那一天）開始使用。之後，需要向CSSM報告許可證使用情況。

在使用策略的智慧許可中，沒有更改任何許可證，對於Catalyst 9K平台，所有許可證均未強制執行，並且用於註冊許可證的先前配置/拓撲仍然可用。假設裝置已使用以前的智慧許可證版本映像註冊或保留。在這種情況下，一旦將映像升級到受策略支援的智慧許可映像，許可證將自動轉換為零接觸策略使用智慧許可許可證。如果裝置仍在使用使用權許可證，或者由於智慧許可註冊/保留未完成而具有評估或評估過期映像，則存在使用適用於Windows 10的思科智慧許可證實用程式 (CSLU)應用程式的新拓撲(預期將來可隨內部衛星或其他控制器 (如Cisco DNAC) 提供)。CSLU位於裝置和CSSM之間。它收集所有裝置的使用情況資料，並為CSSM提供離線或線上的單點聯絡人。

使用策略將智慧許可證註冊(SL)遷移到智慧許可

使用以前的智慧許可映像（所有Cat9K交換機從16.9.1開始一直到17.3.1），預設情況下啟用callhome以連線到雲中的CSSM。這需要裝置(單台交換機、堆疊或StackWise虛擬(SVL))通過管理埠或前面板下行鏈路/上行鏈路埠連線到CSSM。

如果裝置已經通過「智慧許可證傳輸callhome」或「智慧許可證傳輸smart」註冊，則轉換為使用策略的智慧許可為「零觸控」。將裝置軟體升級到支援使用策略的智慧許可的映像時，無需更改配置即可支援向後相容性。當裝置使用支援策略的Smart Licensing Using Policy映象啟動時，以前用於註冊產品例項(PI)許可證的idtoken將轉換為信任代碼，以允許裝置與CSSM之間的通訊。所有許可證顯示為使用中而不是註冊和授權中，如果智慧帳戶中有任何自定義策略，則還會安裝該策略。此時，將根據策略中的報告計畫報告裝置的許可證使用情況。

在CSSM上轉換為Smart Licensing Using Policy後，PI中每台交換機的以前的PI從使用主機名更改為UDI (PID和序列號)。對於HA系統，在活動交換機CSSM PI中都會報告使用的許可證。備用和成員交換機 (如果可用) 在CSSM中也有一個PI，但不報告任何許可證使用情況。如果HA系統中的活動交換機在報告期間發生更改，則現在可以在新的活動PI下看到許可證使用情況。

使用策略升級到智慧許可之前，在具有已註冊許可證的裝置上顯示Show命令

在show license命令輸出中，請注意，許可證是作為智慧許可的一部分進行註冊和授權的。

```
<#root>
```

```
Switch#
```

```
show license summary
```

```
Smart Licensing is ENABLED
```

```
Registration:
```

```
Status:
```

```
REGISTERED
```

```
Smart Account: BU Production Test
```

```
Virtual Account: Cat9K-FranklinDT
```

```
Export-Controlled Functionality: ALLOWED
```

```
Last Renewal Attempt: None
```

```
Next Renewal Attempt: Mar 21 11:08:58 2021 PST
```

```
License Authorization:
```

```
Status:
```

```
AUTHORIZED
```

```
Last Communication Attempt: SUCCEEDED
```

```
Next Communication Attempt: Oct 22 11:09:07 2020 PST
```

```
License Usage:
```

```
License Entitlement tag Count Status
```

```
-----  
C9500 Network Advantage (C9500 Network Advantage) 2 AUTHORIZED
```

```
C9500-DNA-16X-A (C9500-16X DNA Advantage) 2 AUTHORIZED
```

```
Switch#
```

```
show license usage
```

```
License Authorization:
```

```
Status:
```

```
AUTHORIZED
```

```
on Sep 22 11:09:07 2020 PST
```

```
C9500 Network Advantage (C9500 Network Advantage):
```

```
Description: C9500 Network Advantage
```

```
Count: 2
```

```
Version: 1.0
```

```
Status:
```

AUTHORIZED

Export status: NOT RESTRICTED

C9500-DNA-16X-A (C9500-16X DNA Advantage):

Description: C9500-DNA-16X-A

Count: 2

Version: 1.0

Status:

AUTHORIZED

Export status: NOT RESTRICTED

Switch#

show license status

Smart Licensing is ENABLED

Utility:

Status: DISABLED

Data Privacy:

Sending Hostname: yes

Callhome hostname privacy: DISABLED

Smart Licensing hostname privacy: DISABLED

Version privacy: DISABLED

Transport:

Type: Callhome

Registration:

Status: REGISTERED

Smart Account: BU Production Test

Virtual Account: Cat9K-FranklinDT

Export-Controlled Functionality: ALLOWED

Initial Registration: SUCCEEDED on Sep 22 11:08:58 2020 PST

Last Renewal Attempt: None

Next Renewal Attempt: Mar 21 11:08:57 2021 PST

Registration Expires: Sep 22 11:04:23 2021 PST

License Authorization:

Status:

AUTHORIZED

on Sep 22 11:09:07 2020 PST

Last Communication Attempt: SUCCEEDED on Sep 22 11:09:07 2020 PST

Next Communication Attempt: Oct 22 11:09:06 2020 PST

Communication Deadline: Dec 21 11:04:34 2020 PST

Export Authorization Key:

Features Authorized:

<none>

Miscellaneous:

Custom Id: <empty>

使用策略支援的映像使用智慧許可引導後在裝置上顯示Show命令

在show license輸出中，請注意，許可證現在正在使用，而不是「Registered and Authorized」。此外，註冊idtoken已被自動用作受信任代碼，以便允許CSSM與裝置之間的通訊。此外，裝置上會安裝Cisco Default策略。

```
Switch#show license summary
```

```
License Usage:
```

```
License Entitlement tag Count Status
```

```
-----  
network-advantage (C9500 Network Advantage) 2 IN USE
```

```
dna-advantage (C9500-16X DNA Advantage) 2 IN USE
```

```
Switch#show license usage
```

```
License Authorization:
```

```
Status: Not Applicable
```

```
network-advantage (C9500 Network Advantage):
```

```
Description: network-advantage
```

```
Count: 2
```

```
Version: 1.0
```

```
Status: IN USE
```

```
Export status: NOT RESTRICTED
```

```
Feature Name: network-advantage
```

```
Feature Description: network-advantage
```

```
Enforcement type: NOT ENFORCED
```

```
License type: Perpetual
```

```
dna-advantage (C9500-16X DNA Advantage):
```

```
Description: C9500-16X DNA Advantage
```

```
Count: 2
```

```
Version: 1.0
```

```
Status: IN USE
```

```
Export status: NOT RESTRICTED
```

```
Feature Name: dna-advantage
```

```
Feature Description: C9500-16X DNA Advantage
```

```
Enforcement type: NOT ENFORCED
```

```
License type: Subscription
```

```
Switch#show license status
```

```
Utility:
```

```
Status: DISABLED
```

```
Smart Licensing Using Policy:
```

```
Status: ENABLED
```

```
Data Privacy:
```

```
Sending Hostname: yes
```

Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED

Transport:

Type: Callhome

Policy:

Policy in use: Merged from multiple sources.
Reporting ACK required: yes (CISCO default)
Unenforced/Non-Export Perpetual Attributes:
 First report requirement (days): 365 (CISCO default)
 Reporting frequency (days): 0 (CISCO default)
 Report on change (days): 90 (CISCO default)
Unenforced/Non-Export Subscription Attributes:
 First report requirement (days): 90 (CISCO default)
 Reporting frequency (days): 90 (CISCO default)
 Report on change (days): 90 (CISCO default)
Enforced (Perpetual/Subscription) License Attributes:*
 First report requirement (days): 0 (CISCO default)
 Reporting frequency (days): 0 (CISCO default)
 Report on change (days): 0 (CISCO default)
Export (Perpetual/Subscription) License Attributes:*
 First report requirement (days): 0 (CISCO default)
 Reporting frequency (days): 0 (CISCO default)
 Report on change (days): 0 (CISCO default)

Miscellaneous:

Custom Id: <empty>


Usage Reporting:**

Last ACK received: Nov 10 08:56:48 2020 PST
Next ACK deadline: Feb 08 08:56:48 2021 PST
Reporting push interval: 30 days
Next ACK push check: <none>
Next report push: Dec 10 08:55:29 2020 PST
Last report push: Nov 10 08:55:29 2020 PST
Last report file write: <none>

Trust Code Installed:

Active: PID:C9500-16X,SN:FCW2233A5ZV
 INSTALLED on Nov 10 08:54:48 2020 PST
Standby: PID:C9500-16X,SN:FCW2233A5ZY
 INSTALLED on Nov 10 08:54:48 2020 PST

 注意：在命令輸出中，策略的Enforced和Export部分不適用於C9K交換機，因為所有交換機的許可證都是Unenforced。

 註：此表說明了「用法報告」部分中的每行行。

Field	Description
Usage Reporting:	Header for usage reporting (RUM reports) information.
Last ACK received:	Date and time of last ACK received, in the local time zone.
Next ACK deadline:	Date and time for next ACK. If the policy states that an ACK is not required then this field displays <i>none</i> . Note If an ACK is required and is not received by this deadline, a syslog is displayed.
Reporting Interval:	Reporting interval in days The value displayed here depends on what you configure in the license smart usage interval <i>interval_in_days</i> and the policy value. For more information, see the corresponding Syntax Default is 30 days
Next ACK push check:	Date and time when the product instance will submit the next polling request for an ACK. Date and time are in the local time zone. This applies only to product instance- initiated communication to CSSM or CSLU. If the reporting interval is zero, or if no ACK polling is pending, then this field displays <i>none</i> .
Next report push:	Date and time when the product instance will send the next RUM report. Date and time are in the local time zone. If the reporting interval is zero, or if there are no pending RUM reports, then this field displays <i>none</i> .
Last report push:	Date and time for when the product instance sent the last RUM report. Date and time are in the local time zone.
Last report file write:	Date and time for when the product instance last saved an offline RUM report. Date and time are in the local time zone.
Last report pull:	Date and time for when usage reporting information was retrieved using data models. Date and time are in the local time zone.

<#root>

Switch#

`show license udi`

UDI: PID:C9500-16X,SN:FCW2233A5ZV

HA UDI List:

Active:PID:C9500-16X,SN:FCW2233A5ZV

Standby:PID:C9500-16X,SN:FCW2233A5ZY

在CSSM中，顯示活動和備用UDI，而不是在 Product Instances 頁籤。

Cisco Software Central > Smart Software Licensing BU Production Test
Feedback Support Help

Alerts | **Inventory** | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Activity

Virtual Account: Cat9K-FranklinDT 3 Major 96 Minor 4 Informational Hide Alerts

General | Licenses | **Product Instances** | Event Log

Authorize License-Enforced Features... Search by Name, Product Type

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZV;	C9500	2020-Nov-10 16:56:12		Actions
UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZY;	C9500	2020-Nov-10 16:55:18		Actions
UDI_PID:C9500-16X; UDI_SN:FCW2240U069;	C9500	2020-Nov-10 16:50:52		Actions
UDI_PID:C9410R; UDI_SN:FXS2232Q01Q;	C9400	2020-Nov-10 15:42:46		Actions
UDI_PID:C9407R; UDI_SN:FXS2119Q2U7;	C9400	2020-Nov-10 12:14:24		Actions

按一下活動PID以顯示許可證使用情況。按一下 High Availability 頁籤以顯示高可用性系統中包含的所有PID。

Cisco Software Central > Smart Software Licensing BU Production Test
Feedback Support Help

Smart Software Licensing

UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZV;

Overview | **High Availability** | Event Log

Description
C9500

General

Name: **UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZV;**

Product: C9500

Host Identifier: -

MAC Address: -

PID: C9500-16X

Serial Number: FCW2233A5ZV

UUID: -

Virtual Account: Cat9K-FranklinDT

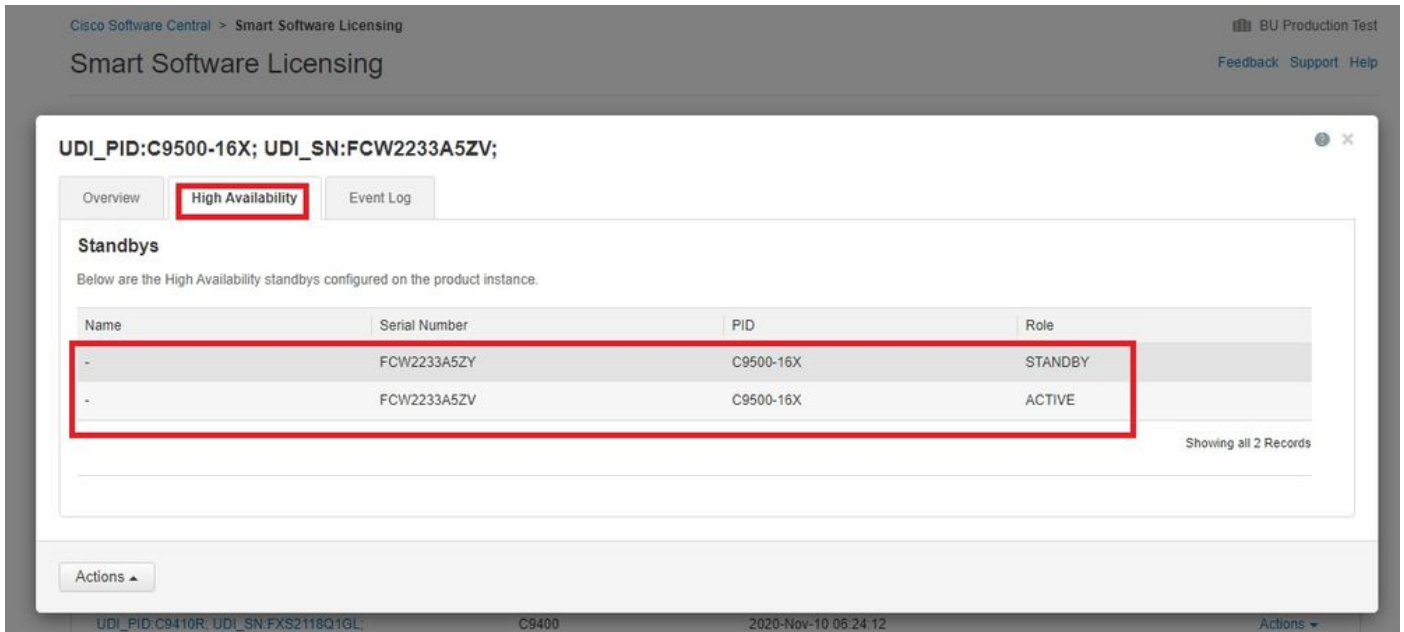
Registration Date: 2020-Nov-10 16:55:17

Last Contact: 2020-Nov-10 16:56:12

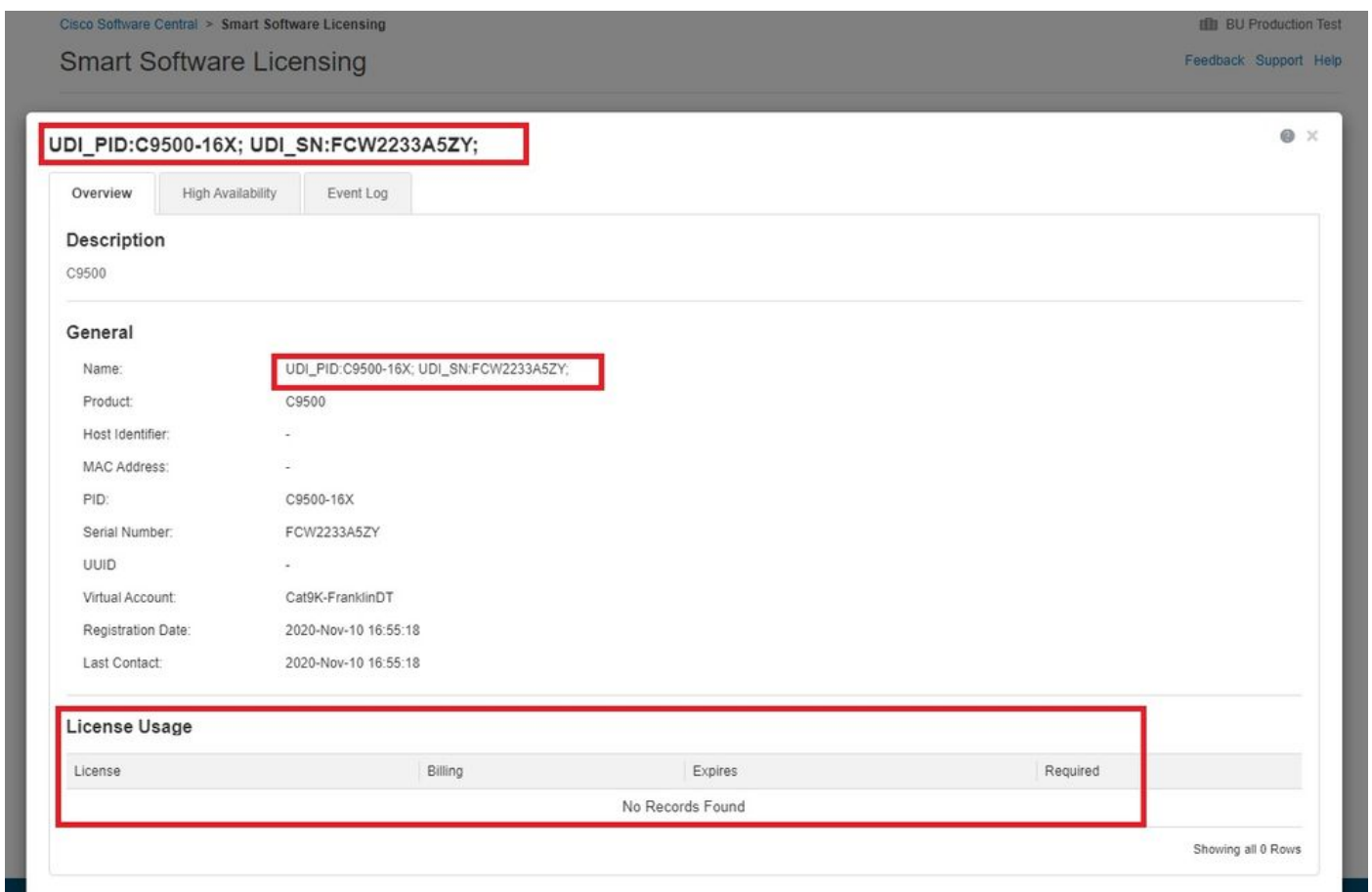
License Usage

License	Billing	Expires	Required
C9500 Network Advantage	Prepaid	-	2
C9500-DNA-16X-A	Prepaid	-	2

Showing all 2 Rows



按一下Product Instance索引標籤下的Standby switch UDI，以顯示備用交換器的資訊。備用交換機不顯示任何許可證使用情況，因為裝置的許可證使用情況僅在活動交換機下顯示。



進行此轉換後，將繼續根據已安裝的策略報告許可證使用情況。

從使用策略的智慧許可降級為智慧許可證註冊映像

如果由於某種原因，必須將裝置降級為不支援使用智慧許可策略的先前映像，請勿更改配置並安裝

該映像以降級。根據裝置降級的影象，可能需要在裝置上重新註冊。在17.3.2或17.4.1開發工作之前發佈的映像不瞭解使用策略或信任代碼的智慧許可，因此，降級後需要重新註冊。從CSSM取得idtoken並使用命令很簡單 `license smart register idtoken`

all
在裝置上。

16.9.6及更高版本、16.12.4及更高版本和17.3.1映像已新增代碼，以便識別信任代碼，並在映像降級時將其轉換回註冊識別符號。許可證將自動放回「已註冊」狀態和「已授權」狀態。

使用策略將SLR遷移到智慧許可

由於各種原因，客戶並不總是希望連線CSSM或外部。為此，新增了離線特定許可證保留(SLR)功能，以允許交換機符合要求。本文對此進行說明，並可以使用[特定許可證保留](#)文檔瞭解詳細資訊。SLR從16.9.1版本一直到17.3.1版本。

當安裝了特定許可證預留的裝置升級為使用策略支援的智慧許可映像時，許可證轉換是自動進行的，此時不需要執行更多操作。這些許可證現在正在使用中，表明它們以前通過SLR獲得授權。但是，在安裝的策略所指示的較遲日期，可能需要報告許可證使用情況，如本節稍後部分所示。

在裝置上顯示命令以及支援舊版智慧許可證的影象

```
<#root>
```

```
Switch#
```

```
show license summary
```

```
Smart Licensing is ENABLED  
License Reservation is ENABLED  
Registration:  
  Status:
```

```
REGISTERED - SPECIFIC LICENSE RESERVATION
```

```
  Export-Controlled Functionality: ALLOWED  
License Authorization:  
  Status:
```

```
AUTHORIZED - RESERVED
```

```
License Usage:
```

License	Entitlement tag	Count	Status

C9500 Network Advantage	(C9500 Network Advantage)	2	
AUTHORIZED			
C9500-DNA-16X-A	(C9500-16X DNA Advantage)	2	
AUTHORIZED			

Switch#

show license reservation

License reservation: ENABLED

Overall status:

Active: PID:C9500-16X,SN:FCW2233A5ZV

Reservation status: SPECIFIC INSTALLED on Aug 31 10:15:01 2020 PDT

Export-Controlled Functionality: ALLOWED

Last Confirmation code: 4bfbea7f

Standby: PID:C9500-16X,SN:FCW2233A5ZY

Reservation status: SPECIFIC INSTALLED on Aug 31 10:15:01 2020 PDT

Export-Controlled Functionality: ALLOWED

Last Confirmation code: 9394f196

Specified license reservations:

C9500 Network Advantage (C9500 Network Advantage):

Description: C9500 Network Advantage

Total reserved count: 2

Term information:

Active: PID:C9500-16X,SN:FCW2233A5ZV

License type: PERPETUAL

Term Count: 1

Standby: PID:C9500-16X,SN:FCW2233A5ZY

License type: PERPETUAL

Term Count: 1

C9500-DNA-16X-A (C9500-16X DNA Advantage):

Description: C9500-DNA-16X-A

Total reserved count: 2

Term information:

Active: PID:C9500-16X,SN:FCW2233A5ZV

License type: TERM

Start Date: 2020-MAR-17 UTC

End Date: 2021-MAR-17 UTC

Term Count: 1

Standby: PID:C9500-16X,SN:FCW2233A5ZY

License type: TERM

Start Date: 2020-MAR-17 UTC

End Date: 2021-MAR-17 UTC

Term Count: 1

Switch#

show license status

Smart Licensing is ENABLED

Utility:

Status: DISABLED

License Reservation is ENABLED

Data Privacy:

Sending Hostname: yes

Callhome hostname privacy: DISABLED

Smart Licensing hostname privacy: DISABLED

Version privacy: DISABLED

Transport:
Type: Callhome

Registration:
Status:

REGISTERED - SPECIFIC LICENSE RESERVATION

Export-Controlled Functionality: ALLOWED
Initial Registration: SUCCEEDED on Aug 31 11:07:39 2020 PDT

License Authorization:
Status:

AUTHORIZED - RESERVED

on Aug 31 10:15:01 2020 PDT

Export Authorization Key:
Features Authorized:
<none>

使用策略支援的映像使用智慧許可引導後在裝置上顯示Show命令

show命令顯示正在使用的許可證，並指示這些許可證以前已由特定許可證保留授權。思科預設策略正在使用中。

<#root>

Switch#

show license summary

License Reservation is ENABLED

License Usage:

License	Entitlement tag	Count	Status
network-advantage	(C9500 Network Advantage)	2	

IN USE

dna-advantage	(C9500-16X DNA Advantage)	2	
---------------	---------------------------	---	--

IN USE

Switch#

show license all

Smart Licensing Status

=====

Smart Licensing is ENABLED

License Reservation is ENABLED

Export Authorization Key

Features Authorized:

<none>

Utility:

Status: DISABLED

Smart Licensing Using Policy:

Status: ENABLED

Data Privacy:

Sending Hostname: yes

Callhome hostname privacy: DISABLED

Smart Licensing hostname privacy: DISABLED

Version privacy: DISABLED

Transport:

Type: Transport Off

Miscellaneous:

Custom Id: <empty>

Policy:

Policy in use: Merged from multiple sources.

Reporting ACK required: yes (CISCO default)

Unenforced/Non-Export Perpetual Attributes:

First report requirement (days): 365 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 90 (CISCO default)

Unenforced/Non-Export Subscription Attributes:

First report requirement (days): 90 (CISCO default)

Reporting frequency (days): 90 (CISCO default)

Report on change (days): 90 (CISCO default)

Enforced (Perpetual/Subscription) License Attributes:

First report requirement (days): 0 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 0 (CISCO default)

Export (Perpetual/Subscription) License Attributes:

First report requirement (days): 0 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 0 (CISCO default)

Usage Reporting:

Last ACK received: <none>

Next ACK deadline: Nov 29 10:50:05 2020 PDT

Reporting Interval: 30

Next ACK push check: <none>

Next report push: Aug 31 10:52:05 2020 PDT

Last report push: <none>

Last report file write: <none>

Trust Code Installed: <none>

License Usage

=====

network-advantage (C9500 Network Advantage):

Description: network-advantage

Count: 2

Version: 1.0
Status: IN USE
Export status: NOT RESTRICTED
Feature Name: network-advantage
Feature Description: network-advantage
Enforcement type: NOT ENFORCED
License type: Perpetual
Reservation:
Reservation status:

SPECIFIC INSTALLED

Total reserved count: 2

dna-advantage (C9500-16X DNA Advantage):
Description: C9500-16X DNA Advantage
Count: 2
Version: 1.0
Status:

IN USE

Export status: NOT RESTRICTED
Feature Name: dna-advantage
Feature Description: C9500-16X DNA Advantage
Enforcement type: NOT ENFORCED
License type: Subscription
Reservation:
Reservation status:

SPECIFIC INSTALLED

Total reserved count: 2

Product Information

=====

UDI: PID:C9500-16X,SN:FCW2233A5ZV

HA UDI List:

Active:PID:C9500-16X,SN:FCW2233A5ZV
Standby:PID:C9500-16X,SN:FCW2233A5ZY

Agent Version

=====

Smart Agent for Licensing: 5.0.5_rel/42

License Authorizations

=====

Overall status:

Active: PID:C9500-16X,SN:FCW2233A5ZV
Status:

SPECIFIC INSTALLED

on Aug 31 10:15:01 2020 PDT
Last Confirmation code: 4bfbea7f
Standby: PID:C9500-16X,SN:FCW2233A5ZY
Status:

SPECIFIC INSTALLED

on Aug 31 10:15:01 2020 PDT
Last Confirmation code: 9394f196

Specified license reservations:
C9500 Network Advantage (C9500 Network Advantage):
Description: C9500 Network Advantage
Total reserved count: 2
Enforcement type: NOT ENFORCED
Term information:
Active: PID:C9500-16X,SN:FCW2233A5ZV
Authorization type:

SPECIFIC INSTALLED

on Aug 31 10:15:01 2020 PDT
License type: PERPETUAL
Term Count: 1
Standby: PID:C9500-16X,SN:FCW2233A5ZY
Authorization type:

SPECIFIC INSTALLED

on Aug 31 10:15:01 2020 PDT
License type: PERPETUAL
Term Count: 1
C9500-DNA-16X-A (C9500-16X DNA Advantage):
Description: C9500-DNA-16X-A
Total reserved count: 2
Enforcement type: NOT ENFORCED
Term information:
Active: PID:C9500-16X,SN:FCW2233A5ZV
Authorization type:

SPECIFIC INSTALLED

on Aug 31 10:15:01 2020 PDT
License type: PERPETUAL
Term Count: 1
Standby: PID:C9500-16X,SN:FCW2233A5ZY
Authorization type:

SPECIFIC INSTALLED

on Aug 31 10:15:01 2020 PDT
License type: PERPETUAL
Term Count: 1

Purchased Licenses:

No Purchase Information Available

Derived Licenses:

Entitlement Tag: regid.2017-03.com.cisco.advantagek9-Nyquist-C9500,1.0_f1563759-2e03-4a4c-bec5-5feec5
Entitlement Tag: regid.2017-07.com.cisco.C9500-DNA-16X-A,1.0_ef3574d1-156b-486a-864f-9f779ff3ee49

Switch#

show license status

Utility:

Status: DISABLED

License Reservation is ENABLED

Data Privacy:

Sending Hostname: yes
Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED

Transport:

Type: Transport Off

Policy:

Policy in use: Merged from multiple sources.
Reporting ACK required: yes (CISCO default)
Unenforced/Non-Export Perpetual Attributes:
First report requirement (days): 365 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 90 (CISCO default)
Unenforced/Non-Export Subscription Attributes:
First report requirement (days): 90 (CISCO default)
Reporting frequency (days): 90 (CISCO default)
Report on change (days): 90 (CISCO default)
Enforced (Perpetual/Subscription) License Attributes:
First report requirement (days): 0 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 0 (CISCO default)
Export (Perpetual/Subscription) License Attributes:
First report requirement (days): 0 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 0 (CISCO default)

Miscellaneous:

Custom Id: <empty>

Usage Reporting:

Last ACK received: <none>
Next ACK deadline: Nov 29 10:50:05 2020 PDT
Reporting Interval: 30
Next ACK push check: <none>
Next report push: Aug 31 10:52:05 2020 PDT
Last report push: <none>
Last report file write: <none>

Trust Code Installed: <none>

在CSSM中，PI沒有更改並指示保留的許可證，因為此時沒有報告使用率。在收到策略指示或系統日誌消息之前，不需要報告使用情況。

Virtual Account: SLE_Test ▾

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Name	Product Type	Last Contact ▾	Alerts	Actions
UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZY;	C9500	2020-Sep-25 18:01:41 (Reserved Licenses)		Actions ▾
UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZY;	C9500	2020-Sep-25 18:00:24 (Reserved Licenses)		Actions ▾
UDI_PID:C9407R; UDI_SN:FXS2119Q2U7;	C9400	2020-Sep-25 17:21:27		Actions ▾
svl_10	C9400	2020-Sep-25 15:08:42		Actions ▾
UDI_PID:C9300-48T; UDI_SN:FOC2236Z0P2;	C9300	2020-Sep-25 12:09:59		Actions ▾

根據策略在以後需要時報告使用情況

如果正在使用Cisco DNA許可證，則以後可能會要求裝置報告使用情況。這仍可以在離線模式下完成。但是，對於HA系統，完整裝置只需要一個報告檔案。使用命令 `license smart save usage` CLI，以便建立要在CSSM中使用的報告檔案。然後將檔案複製到CSSM可訪問的位置。

```
Switch#license smart save usage unreported file flash:RUM-usage-20200925.txt
Switch#copy flash:RUM-usage-20200925.txt tftp://172.27.18.5//auto/tftp-sjc-users2/byodis/
Address or name of remote host [172.27.18.5]?
Destination filename [/auto/tftp-sjc-users2/byodis/RUM-usage-20200925.txt]?
!!
15128 bytes copied in 0.161 secs (93963 bytes/sec)
```

現在開啟CSSM，然後按一下 **Report** 頁籤。現在，按一下 **Usage Data Files** 頁籤，然後按一下 **Upload Usage Data** 按鈕，用於上傳使用情況報告檔案。它要求安裝虛擬帳戶，因此請確保選擇正確的帳戶。等待報告完成處理(按一下 **Usage Data Files** 頁籤以刷新螢幕，並檢視其是否已完成)。如果報告成功，則狀態指示無錯誤和 **Download ACK** 檔案可供下載並在裝置上安裝，表明已收到使用情況並報告成功。

Reports

Usage Data File	Reported	Virtual Account	Reporting Status	Devices	Acknowledgement
RUM-usage-20200925.txt	2020-Sep-25	SLE_Test	i No Errors	1	Download
sle_usage_top_7slot_20200924	2020-Sep-25	SLE_Test	x Errors (1)	1	Download
sle_usage_top_7slot_20200924	2020-Sep-25	SLE_Test	x Errors (1)	1	Download
usage	2020-Sep-24	SLE Test	i No Errors	1	Download

將此下載檔案複製到裝置或裝置可訪問的某個位置，然後使用命令 `license smart import` 以便將ACK檔案匯入到裝置。

```
Switch#license smart import tftp://172.27.18.5//auto/tftp-sjc-users2/byodis/ACK_RUM-usage-20200925.txt
Import Data Successful
```

以下專案的輸出 `show license status` 表示在正確的時間記錄了ACK。

```
<#root>
```

```
Switch#
```

```
show license status
```

```
Utility:
```

```
Status: DISABLED
```

```
Smart Licensing Using Policy:
```

```
Status: ENABLED
```

```
License Reservation is ENABLED
```

```
Data Privacy:
```

```
Sending Hostname: yes
```

```
Callhome hostname privacy: DISABLED
```

```
Smart Licensing hostname privacy: DISABLED
```

```
Version privacy: DISABLED
```

```
Transport:
```

```
Type: Off
```

```
Policy:
```

```
Policy in use: Merged from multiple sources.
```

```
Reporting ACK required: yes (CISCO default)
```

```
Unenforced/Non-Export Perpetual Attributes:
```

```
First report requirement (days): 365 (CISCO default)
```

```
Reporting frequency (days): 0 (CISCO default)
```

```
Report on change (days): 90 (CISCO default)
```

```
Unenforced/Non-Export Subscription Attributes:
```

```
First report requirement (days): 90 (CISCO default)
```

```
Reporting frequency (days): 90 (CISCO default)
```

```
Report on change (days): 90 (CISCO default)
```

```
Enforced (Perpetual/Subscription) License Attributes:
```

```
First report requirement (days): 0 (CISCO default)
```

```
Reporting frequency (days): 0 (CISCO default)
```

```
Report on change (days): 0 (CISCO default)
```

```
Export (Perpetual/Subscription) License Attributes:
```

```
First report requirement (days): 0 (CISCO default)
```

```
Reporting frequency (days): 0 (CISCO default)
```

```
Report on change (days): 0 (CISCO default)
```

```
Miscellaneous:
```

```
Custom Id: <empty>
```

Usage Reporting:

Last ACK received: Sep 25 10:12:15 2020 PST

Next ACK deadline: Dec 24 10:12:15 2020 PST
Reporting push interval: 30 days
Next ACK push check: Sep 25 07:55:35 2020 PST
Next report push: Sep 25 10:12:46 2020 PST
Last report push: Sep 25 07:54:33 2020 PST
Last report file write: <none>

Trust Code Installed: <none>

在CSSM中，PI不再顯示保留的許可證，並且僅在活動PI中可見許可證使用情況。

Smart Software Licensing

[Feedback](#) [Support](#) [Help](#)

[Alerts](#) | [Inventory](#) | [Convert to Smart Licensing](#) | [Reports](#) | [Preferences](#) | [On-Prem Accounts](#) | [Activity](#)

Virtual Account: **SLE_Test** ▾

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Name	Product Type	Last Contact ▾	Alerts	Actions
UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZV;	C9500	2020-Sep-25 17:03:20		Actions ▾
UDI_PID:C9500-16X; UDI_SN:FCW2233A5ZY;	-	2020-Sep-25 17:03:18		Actions ▾
UDI_PID:C9407R; UDI_SN:FXS2119Q2U7;	C9400	2020-Sep-25 16:59:37		Actions ▾
svl_10	C9400	2020-Sep-25 15:08:42		Actions ▾
UDI_PID:C9300-48T; UDI_SN:FOC2236Z0P2;	C9300	2020-Sep-25 12:09:59		Actions ▾
UDI_PID:C9300-24P; UDI_SN:FOC2237U0G2;	C9300	2020-Sep-25 12:09:59		Actions ▾

從使用策略的智慧許可降級到支援的特定許可證保留映像

如果映像降級為不支援使用策略的智慧許可但支援SLR的版本，則只需對映像執行降級即可。許可證保留為保留和授權 — 不需要其他任何內容。

使用策略將Eval或Eval Expired遷移到Smart Licensing

從16.9.1版本開始，直到17.3.1版本，如果許可證未註冊或發佈，則預設情況下它們是Eval許可證。90天後，它們成為評估過期許可證。兩者均表示許可證不符合要求。由於所有許可證均未實施，因此裝置上不會丟失任何功能功能。

使用策略的智慧許可不再具有許可證的評估狀態。因此，如果任何裝置在使用策略升級到支援智慧許可的映像時具有「評估」或「評估過期」許可證，則所有這些許可證均被視為正在使用，且應用思科預設策略。許可證不再顯示為UNAUTHORIZED或OUT OF COMPLIANCE。

評估/評估過期模式下智慧許可證的Show命令

<#root>

Switch#

show license summary

Smart Licensing is ENABLED

Registration:

Status:

UNREGISTERED

Export-Controlled Functionality: NOT ALLOWED

License Authorization:

Status:

EVAL MODE

Evaluation Period Remaining: 89 days, 21 hours, 37 minutes, 30 seconds

License Usage:

License Entitlement tag Count Status

(C9500 Network Advantage) 2

EVAL MODE

(C9500-16X DNA Advantage) 2

EVAL MODE

Switch#

show license usage

License Authorization:

Status: EVAL MODE

Evaluation Period Remaining: 89 days, 21 hours, 37 minutes, 21 seconds

(C9500 Network Advantage):

Description:

Count: 2

Version: 1.0

Status:

EVAL MODE

Export status: NOT RESTRICTED

(C9500-16X DNA Advantage):

Description:

Count: 2

Version: 1.0

Status:

EVAL MODE

Export status: NOT RESTRICTED

Switch#

show license status

Smart Licensing is ENABLED

Utility:

Status: DISABLED

Data Privacy:

Sending Hostname: yes

Callhome hostname privacy: DISABLED

Smart Licensing hostname privacy: DISABLED

Version privacy: DISABLED

Transport:

Type: Callhome

Registration:

Status:

UNREGISTERED

Export-Controlled Functionality: NOT ALLOWED

License Authorization:

Status:

EVAL MODE

Evaluation Period Remaining: 89 days, 21 hours, 37 minutes, 15 seconds

Export Authorization Key:

Features Authorized:

<none>

Miscellaneous:

Custom Id: <empty>

升級後使用策略顯示智慧許可證智慧許可的命令，但尚未報告使用情況

<#root>

Switch#

show license summary

License Usage:

License Entitlement tag Count Status

network-advantage (C9500 Network Advantage) 2

IN USE

dna-advantage (C9500-16X DNA Advantage) 2

IN USE

Switch#

show license usage

License Authorization:

Status:

Not Applicable

network-advantage (C9500 Network Advantage):

Description: network-advantage

Count: 2

Version: 1.0

Status:

IN USE

Export status: NOT RESTRICTED

Feature Name: network-advantage

Feature Description: network-advantage

Enforcement type: NOT ENFORCED

License type: Perpetual

dna-advantage (C9500-16X DNA Advantage):

Description: C9500-16X DNA Advantage

Count: 2

Version: 1.0

Status:

IN USE

Export status: NOT RESTRICTED

Feature Name: dna-advantage

Feature Description: C9500-16X DNA Advantage

Enforcement type: NOT ENFORCED

License type: Subscription

Switch#

show license status

Utility:

Status: DISABLED

Smart Licensing Using Policy:

Status: ENABLED

Data Privacy:

Sending Hostname: yes

Callhome hostname privacy: DISABLED

Smart Licensing hostname privacy: DISABLED

Version privacy: DISABLED

Transport:

Type: Transport Off

Policy:

Policy in use: Merged from multiple sources.

Reporting ACK required: yes (CISCO default)

Unenforced/Non-Export Perpetual Attributes:

First report requirement (days): 365 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 90 (CISCO default)

Unenforced/Non-Export Subscription Attributes:

First report requirement (days): 90 (CISCO default)

Reporting frequency (days): 90 (CISCO default)

Report on change (days): 90 (CISCO default)

Enforced (Perpetual/Subscription) License Attributes:

First report requirement (days): 0 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 0 (CISCO default)

Export (Perpetual/Subscription) License Attributes:

First report requirement (days): 0 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 0 (CISCO default)

Miscellaneous:

Custom Id: <empty>

Usage Reporting:

Last ACK received: <none>

Next ACK deadline: Feb 08 08:27:59 2021 PST

Reporting push interval: 30 days

Next ACK push check: <none>

Next report push: Nov 10 08:29:59 2020 PST

Last report push: <none>

Last report file write: <none>

Trust Code Installed: <none>

連線到CSLU並報告使用情況後使用策略顯示智慧許可命令

作為 show license status 輸出顯示，訂閱許可證 (dna-advantage和dna-essentials) 需要在90天內報告。可以使用任何支援的各種使用報告拓撲。請參閱《使用策略的智慧許可配置指南》。此外，本文結

尾提供一些連結，用於提供有用的影片和文檔。此處的示例是將具有顯式配置的CSLU PUSH模型用於安裝在Windows 10電腦（筆記型電腦、伺服器、虛擬機器）上的CSLU伺服器。CSLU下載、安裝指南和使用手冊位於

<https://software.cisco.com/download/home/286285506/type/286327971/release/1.0.0-2>。

```
<#root>
```

```
Switch#
```

```
show running-config all | include cslu
```

```
license smart transport cslu
```

```
Switch#
```

```
Switch#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Switch(config)#
```

```
license smart url cslu http://10.24.74.180:8182/cslu/v1/pi
```

```
Switch(config)#^Z
```

```
Switch#
```

```
Switch#write memory
```

```
Building configuration...
```

```
[OK]
```

```
Switch#
```

```
show running-config all | include cslu
```

```
license smart url cslu http://10.24.74.180:8182/cslu/v1/pi
```

```
license smart transport cslu
```

```
Switch#
```

To force the license usage to be reported use the "license smart sync" command.

```
Switch#
```

```
license smart sync all
```

```
Switch#
```

```
*Sep 22 10:48:36.050 PST: %SMART_LIC-5-COMM_RESTORED: Communications with Cisco Smart License Utility (
```

Note: Use the "all" option for HA device. Use "local" option for standalone switch

```
Switch#
```

```
show license summary
```

```
License Usage:
```

```
License Entitlement tag Count Status
```

```
-----  
network-advantage (C9500 Network Advantage) 2
```

```
IN USE
```

```
dna-advantage (C9500-16X DNA Advantage) 2
```

```
IN USE
```


Switch#

show license usage

License Authorization:
Status: Not Applicable

network-advantage (C9500 Network Advantage):
Description: network-advantage
Count: 2
Version: 1.0
Status:

IN USE

Export status: NOT RESTRICTED
Feature Name: network-advantage
Feature Description: network-advantage
Enforcement type: NOT ENFORCED
License type: Perpetual

dna-advantage (C9500-16X DNA Advantage):
Description: C9500-16X DNA Advantage
Count: 2
Version: 1.0
Status:

IN USE

Export status: NOT RESTRICTED
Feature Name: dna-advantage
Feature Description: C9500-16X DNA Advantage
Enforcement type: NOT ENFORCED
License type: Subscription

Switch#

show license status

Utility:
Status: DISABLED

Smart Licensing Using Policy:
Status: ENABLED

Data Privacy:
Sending Hostname: yes
Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED

Transport:
Type: cslu
Cslu address: <http://10.24.74.180:8182/cslu/v1/pi>

Proxy:

Not Configured

Policy:

Policy in use: Merged from multiple sources.
Reporting ACK required: yes (CISCO default)
Unenforced/Non-Export Perpetual Attributes:
First report requirement (days): 365 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 90 (CISCO default)
Unenforced/Non-Export Subscription Attributes:
First report requirement (days): 90 (CISCO default)
Reporting frequency (days): 90 (CISCO default)
Report on change (days): 90 (CISCO default)
Enforced (Perpetual/Subscription) License Attributes:
First report requirement (days): 0 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 0 (CISCO default)
Export (Perpetual/Subscription) License Attributes:
First report requirement (days): 0 (CISCO default)
Reporting frequency (days): 0 (CISCO default)
Report on change (days): 0 (CISCO default)

Miscellaneous:

Custom Id: <empty>

Usage Reporting:

Last ACK received: Nov 10 08:56:48 2020 PST
Next ACK deadline: Feb 08 08:56:48 2021 PST
Reporting push interval: 30 days
Next ACK push check: <none>
Next report push: Dec 10 08:55:29 2020 PST
Last report push: Nov 10 08:55:29 2020 PST
Last report file write: <none>

Trust Code Installed: <none>

使用策略映像從智慧許可降級為支援評估或評估許可證的映像

如果需要將映像降級到不支援SL Using Policy的映像，則許可證將恢復為Eval或Eval expired。保留原來的剩餘評估期。由於所有Cat9K許可證均未實施，因此不會丟失任何功能。

使用策略將RTU許可證遷移到智慧許可

使用權(RTU)許可是從C9300、C9400和C9500到16.8.1a的初始許可方案。智慧許可在16.9.1之前不可用。

所有許可證仍然相同，但使用較舊的許可證 `license right-to-use` 配置命令和`show`命令。使用策略支援的映像將映像升級為智慧許可後，許可證即被使用，與評估/評估模式中的情況相同。如果有任何使用中的Cisco DNA許可證，則思科預設策略要求在90天內報告使用情況。可以使用使用策略映像的智慧許可使用報告支援的任何不同拓撲。

在具有RTU許可的裝置上顯示Show命令

<#root>

Switch#

show license right-to-use summary

License Name Type Period left

network-essentials Permanent Lifetime
dna-essentials Subscription CSSM Managed

License Level In Use: network-essentials+dna-essentials Subscription
License Level on Reboot: network-essentials+dna-essentials Subscription

Switch#

show license right-to-use

Slot# License Name Type Period left

1 network-essentials Permanent Lifetime

1 dna-essentials Subscription CSSM Managed

License Level on Reboot: network-essentials+dna-essentials Subscription

Slot# License Name Type Period left

2 network-essentials Permanent Lifetime

2 dna-essentials Subscription CSSM Managed

License Level on Reboot: network-essentials+dna-essentials Subscription

Slot# License Name Type Period left

3 network-essentials Permanent Lifetime

3 dna-essentials Subscription CSSM Managed

License Level on Reboot: network-essentials+dna-essentials Subscription

Switch#

show license right-to-use usage

Slot# License Name Type usage-duration(y:m:d) In-Use EULA

1 network-essentials Permanent 00:00:00 yes yes

1 network-essentials Evaluation 00:00:00 no no
1 network-essentials Subscription 00:00:00 no no
1 network-advantage Permanent 00:00:00 no no
1 network-advantage Evaluation 00:00:00 no no
1 network-advantage Subscription 00:00:00 no no
1 dna-essentials Evaluation 00:00:00 no no

1 dna-essentials Subscription 00:00:00 yes yes

1 dna-advantage Evaluation 00:00:00 no no
1 dna-advantage Subscription 00:00:00 no no

Slot# License Name Type usage-duration(y:m:d) In-Use EULA

2 network-essentials Permanent 00:00:00 yes yes

2 network-essentials Evaluation 00:00:00 no no
2 network-essentials Subscription 00:00:00 no no
2 network-advantage Permanent 00:00:00 no no
2 network-advantage Evaluation 00:00:00 no no
2 network-advantage Subscription 00:00:00 no no
2 dna-essentials Evaluation 00:00:00 no no

2 dna-essentials Subscription 00:00:00 yes yes

2 dna-advantage Evaluation 00:00:00 no no
2 dna-advantage Subscription 00:00:00 no no

Slot# License Name Type usage-duration(y:m:d) In-Use EULA

3 network-essentials Permanent 00:00:00 yes yes

3 network-essentials Evaluation 00:00:00 no no
3 network-essentials Subscription 00:00:00 no no
3 network-advantage Permanent 00:00:00 no no
3 network-advantage Evaluation 00:00:00 no no
3 network-advantage Subscription 00:00:00 no no
3 dna-essentials Evaluation 00:00:00 no no

3 dna-essentials Subscription 00:00:00 yes yes

3 dna-advantage Evaluation 00:00:00 no no
3 dna-advantage Subscription 00:00:00 no no

使用策略支援的映像從RTU升級到智慧許可後，在裝置上顯示Show命令

<#root>

Switch#

show license summary

License Usage:

License	Entitlement Tag	Count	Status
network-advantage	(C9300-24 Network Advan...)	2	

IN USE

dna-advantage	(C9300-24 DNA Advantage)	2	
---------------	--------------------------	---	--

IN USE

network-advantage	(C9300-48 Network Advan...)	1	
-------------------	-----------------------------	---	--

IN USE

dna-advantage	(C9300-48 DNA Advantage)	1	
---------------	--------------------------	---	--

IN USE

Switch#

show license usage

License Authorization:

Status: Not Applicable

network-advantage (C9300-24 Network Advantage):

Description: C9300-24 Network Advantage

Count: 2

Version: 1.0

Status:

IN USE

Export status: NOT RESTRICTED

Feature Name: network-advantage

Feature Description: C9300-24 Network Advantage

Enforcement type: NOT ENFORCED

License type: Perpetual

dna-advantage (C9300-24 DNA Advantage):

Description: C9300-24 DNA Advantage

Count: 2

Version: 1.0

Status:

IN USE

Export status: NOT RESTRICTED
Feature Name: dna-advantage
Feature Description: C9300-24 DNA Advantage
Enforcement type: NOT ENFORCED
License type: Subscription

network-advantage (C9300-48 Network Advantage):
Description: C9300-48 Network Advantage
Count: 1
Version: 1.0
Status:

IN USE

Export status: NOT RESTRICTED
Feature Name: network-advantage
Feature Description: C9300-48 Network Advantage
Enforcement type: NOT ENFORCED
License type: Perpetual

dna-advantage (C9300-48 DNA Advantage):
Description: C9300-48 DNA Advantage
Count: 1
Version: 1.0
Status:

IN USE

Export status: NOT RESTRICTED
Feature Name: dna-advantage
Feature Description: C9300-48 DNA Advantage
Enforcement type: NOT ENFORCED
License type: Subscription

Switch#

show license status

Utility:
Status: DISABLED

Smart Licensing Using Policy:
Status: ENABLED

Data Privacy:
Sending Hostname: yes
Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED

Transport:
Type: Transport Off

Policy:
Policy in use: Merged from multiple sources.

```
Reporting ACK required: yes (CISCO default)
Unenforced/Non-Export Perpetual Attributes:
  First report requirement (days): 365 (CISCO default)
  Reporting frequency (days): 0 (CISCO default)
  Report on change (days): 90 (CISCO default)
Unenforced/Non-Export Subscription Attributes:
  First report requirement (days): 90 (CISCO default)
  Reporting frequency (days): 90 (CISCO default)
  Report on change (days): 90 (CISCO default)
Enforced (Perpetual/Subscription) License Attributes:
  First report requirement (days): 0 (CISCO default)
  Reporting frequency (days): 0 (CISCO default)
  Report on change (days): 0 (CISCO default)
Export (Perpetual/Subscription) License Attributes:
  First report requirement (days): 0 (CISCO default)
  Reporting frequency (days): 0 (CISCO default)
  Report on change (days): 0 (CISCO default)
```

Miscellaneous:

```
Custom Id: <empty>
```

Usage Reporting:

```
Last ACK received: <none>
Next ACK deadline: Feb 08 08:27:59 2021 PST
Reporting push interval: 20 days
Next ACK push check: <none>
Next report push: Nov 10 08:29:59 2020 PST
Last report push: <none>
Last report file write: <none>
```

```
Trust Code Installed: <none>
```

這些show命令是在使用策略支援的映像升級到智慧許可後執行的，但尚未向CSSM報告使用情況。許可證全部轉換為使用策略的Smart Licensing IN USE和Cisco預設策略的Smart Licensing。如果使用訂閱許可證，則在90天內需要使用報告。之後，系統日誌消息從CSSM傳送。但是，由於所有C9K許可證均未強制執行，因此不會丟失任何功能功能。

需要報告時，可以使用使用策略的智慧許可配置指南中描述的任何拓撲。許可證show命令輸出與本文檔中所述的輸出類似。根據使用的拓撲，某些輸出可能不同。

使用策略映像從智慧許可降級為支援RTU許可證的映像

如果需要將Cisco IOS XE映像降級回到16.9.1之前的映像，則會保留許可證和功能功能。但是，任何智慧許可配置都是未知且未儲存的。

從使用策略映像的智慧許可降級為支援智慧許可的映像

如果裝置從支援RTU的映像遷移到支援策略智慧許可的映像，並在以後降級為支援17.3.2和17.4.1之前的智慧許可的映像，則這些裝置上的許可證需要執行註冊或特定許可證保留操作。

使用策略自定義策略的智慧許可

公司可能已與思科協商自定義策略。如果是這種情況，思科會將該策略安裝到智慧帳戶中。每個智

慧帳戶只能有一個自定義策略，該策略應用於該智慧帳戶中的所有虛擬帳戶。若要判斷自定義策略在CSSM中是否生效，請開啟Reports檢視，然後按一下 Reporting Policy 頁籤。可以有多个版本，但是只能安裝最新版本。

Cisco Software Central > Smart Software Licensing SA-Switching-Polaris

Smart Software Licensing

Alerts | Inventory | Convert to Smart Licensing | **Reports** | Preferences | On-Prem Accounts | Activity

Reports

Report | Usage Data Files | **Reporting Policy**

This policy defines how often devices will report their feature usage.
It overrides the default policy that is configured on the devices.

Policy	Version	Actions
Custom Policy	6	View Download
Custom policy	09-Jun-2020	
Custom Policy	5	View
Custom policy	08-Jun-2020	
Custom Policy	4	View
Custom policy	08-Jun-2020	
Custom Policy	3	View
Custom policy	08-Jun-2020	
Custom Policy	2	View
Custom policy	08-Jun-2020	
Custom Policy	1	View
Custom policy	05-Jun-2020	

如果在智慧帳戶中安裝了自定義策略，則在執行許可證使用報告時安裝該策略。可以使用exec命令檢視新的自定義策略 `show license status`。顯示自定義策略，而不是思科預設策略。根據自定義策略中定義的內容，可以看到自定義值和預設值的組合。在自定義策略中未定義的任何欄位繼續具有Cisco預設值。

如果使用離線拓撲或具有CSSM拓撲的CSLU離線，則自定義策略可以從CSSM下載到裝置可訪問的檔案/位置。然後可使用exec命令將自定義策略安裝到裝置上 `license smart import`

```
<#root>
```

```
Switch#
```

```
show license status
```

```
Utility:
```

```
Status: DISABLED
```

```
Smart Licensing Using Policy:
```

```
Status: ENABLED
```


Data Privacy:

Sending Hostname: yes
Callhome hostname privacy: DISABLED
Smart Licensing hostname privacy: DISABLED
Version privacy: DISABLED

Transport:

Type: Transport Off

Policy:

Policy in use: Installed On Nov 09 09:09:36 2020 PST

Policy name: Custom Policy

Reporting ACK required: yes (

Customer Policy

)

Unenforced/Non-Export Perpetual Attributes:

First report requirement (days):

60 (Customer Policy)

Reporting frequency (days):

60 (Customer Policy)

Report on change (days):

60 (Customer Policy)

Unenforced/Non-Export Subscription Attributes:

First report requirement (days):

30 (Customer Policy)

Reporting frequency (days):

30 (Customer Policy)

Report on change (days):

30 (Customer Policy)

Enforced (Perpetual/Subscription) License Attributes:

First report requirement (days): 0 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 0 (CISCO default)

Export (Perpetual/Subscription) License Attributes:

First report requirement (days): 0 (CISCO default)

Reporting frequency (days): 0 (CISCO default)

Report on change (days): 0 (CISCO default)

Miscellaneous:

Custom Id: <empty>

Usage Reporting:

Last ACK received: Nov 09 09:09:36 2020 PST
Next ACK deadline: Dec 09 09:09:36 2020 PST
Reporting push interval: 30 days
Next ACK push check: Oct 29 14:39:50 2020 PST
Next report push: Nov 09 09:10:07 2020 PST
Last report push: Oct 29 14:35:51 2020 PST
Last report file write: <none>

Trust Code Installed:

Active: PID:C9300-24UX,SN:FCW2303D16Y
INSTALLED on Oct 29 14:35:12 2020 PST
Standby: PID:C9300-24U,SN:FHH2043P09E
INSTALLED on Oct 29 14:35:13 2020 PST
Member: PID:C9300-48T,SN:FCW2139L056
INSTALLED on Oct 29 14:35:13 2020 PST

相關資訊

- 發行說明：[RN-9200](#)、[RN-9300](#)、[RN-9400](#)、[RN-9500](#)、RN-9600
- 組態指南：[Cat9200-CG](#)、[Cat9300-CG](#)、[Cat9400-CG](#)、[Cat9500-CG](#)、Cat9600-CG
- 命令參考：[Cat9200-CR](#)、[Cat9300-CR](#)、[Cat9400-CR](#)、[Cat9500-CR](#)、Cat9600-CR
- 用於Windows 10的CSLU下載（包括使用手冊和安裝程式指南）：<https://software.cisco.com/download/home/286285506/type/286327971/release/1.0.0-2>
- [技術支援與文件 - Cisco Systems](#)

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。