Configure Smart Licensing Using Policy on the Nexus Platform

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Introduction

This document describes how to configure Smart Licensing using Policy (SLP) on the Nexus 9K platform.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Nexus NX-OS software
- Cisco NX-OS licensing options
- Domain Name System (DNS)

Components Used

The information in this document is based on Cisco Nexus 9000 with NXOS version 10.2(5).

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

Smart Software Licensing (SL) provides a single, standardized licensing solution for all of your Cisco products. It is a cloud-based licensing end-to-end platform that consists of tools and processes to authorize the usage and reporting of your Cisco products. It is designed to run on a product instance and communicate

with the Cisco Cloud License Service through the Smart Call Home transport medium to complete product registration and authorization.

Smart Licensing Using Policy (SLP) was introduced in Cisco NX-OS Release 10.2(1)F, and it remains the only supported licensing mode to this day.

Smart Licensing Using Policy is an enhanced version of Smart Software Licensing, with the overarching objective of providing a licensing solution that does not interrupt the operations of your network, but rather, one that enables a compliance relationship to account for the hardware and software licenses you purchase and use.

Smart Licensing Using Policy is honor-based. However, license use compliance does require software reporting.

Cisco Smart Software Manager (CSSM) is responsible for managing the accounts and license instances. CSSM runs 24/7 on the <u>Cisco site</u>.

Methods

Main methods to connect Nexus switches to CSSM:

- Directly: You point directly to the Cisco site using the Internet connection.
- Via Cisco Smart Licensing Utility (CSLU): This is a software application you can run on your computer. <u>Installation guide</u>.
- Via On-Prem license server: Dedicated server running operating system provided by Cisco. <u>Installation guide</u>.
- Offline: You generate a report on the Nexus switch and upload the file to CSSM to generate an acknowledgment file, which then needs to be applied to the Nexus switch.



Note: It does not matter what method is used, the first report must still be done to CSSM within the next 90 days. Later, report frequency is required every 365 days, unless a license usage change occurs, which requires another report within the next 90 days.

Configurations

These configurations are implemented on Nexus 9K switch using management VRF for all communications, which is the default VRF for SLP.

Method 1: Directly Connected

- Both smart and call-home modes of transport are supported.
- Only management VRF is supported on call home mode of transport until NXOS 10.2(2)F, starting NXOS 10.2(3)F non-management VRF is supported as well.
- Before NXOS 10.3(2)F, only management VRF is supported on smart mode of transport. Starting from NXOS 10.3(2)F, non-management VRF is supported as well.

Step 1. Configure DNS client.

Nexus(config)# ip domain-lookup Nexus(config)# vrf context management Nexus(config-vrf)# ip name-server <dns server ip>

Step 2. Configure smart transport mode.

Nexus(config)# license smart transport smart

Step 3. Indicate CSSM URL.

Nexus(config)# license smart url smart https://smartreceiver.cisco.com/licservice/license

Step 4. Create the Trust Code (token) in the <u>Cisco site</u>.

Log in to **Cisco Software Central > Smart Software Licensing > Inventory > General**.

Click New Token....

Cisco Software	Central > Smart	interna	alTestDemoAccount69.cisco.co							
Smart S	Software I	licensing				SI	Product Details Support He			
Alerts Inve	ntory Convert	to Smart Licensing Re	ports Preferences	On-Prem Accounts Activit	у					
Virtual Acc	count: CML -	- bpaez					1 Major Hide Alerts			
General	Licenses	Product Instances	Event Log							
Virtual A	ccount									
Descriptio	on:	Private vi	rtual account for persor	nal use of CML.						
Default Vi	irtual Account:	No								
Product The registrat	Product Instance Registration Tokens The registration tokens below can be used to register new product instances to this virtual account. New Token									
Token		Expiration Date	Uses	Export-Controlled	Description	Created By	Actions			
				No Records Found						
The token w	ill be expired when	either the expiration or the	e maximum uses is read	ched						

Step 4a. Fill in the required information and click Create Token.

Create Registration Token

This will create a token that is used to register product instances, so that they can use licenses from this virtual account. Once it's created, go to the Smart Licensing configuration for your products and enter the token, to register them with this virtual account.

0 X

Virtual Account:	CML - bpaez
Description:	SLP Test
* Expire After:	30 Days
Max. Number of Uses:	Between 1 - 365, 30 days recommended
Allow export-controlled fu	nctionality on the products registered with this token 🕤
	Create Token Cancel

Step 4b. Click the newly created token.

Cisco Software Smart S	Central > Smart	Software Licensing	🛍 Intern Si	alTestDemoAccount69.cisco.co			
Alerts Inven	tory Convert	to Smart Licensing Reports	Preferences	On-Prem Accounts Activi	ty		
Virtual Acc	ount: CML	- bpaez					1 Major Hide Alerts
General	Licenses	Product Instances E	vent Log				
Virtual Ac	count	Private virtual a	ccount for personal	use of CML			
Default Vir	tual Account:	No	occurrent percentar				
Product I The registrati	nstance Reg	gistration Tokens can be used to register new prod	uct instances to this	virtual account.			
Token		Expiration Date	Uses	Export-Controlled	Description	Created By	Actions
NGFjYjcwM The token wi	ijYtZjlkNi0 🛛	2023-Aug-21 02:58:42 (in 30 day n either the expiration or the maxi	s) 0 of 10 mum uses is reache	Allowed	SLP Test	bpaez	Actions -

Step 4c. Press **ctrl** + **c** to copy the selected text to the clipboard.

InternalTestDemoAccount69.cisco.com

SL Product Details Support Help

Cisco Software Central > Smart Software Licensing Smart Software Licensing

Ierts Inventory Convert to Smart Licensing Reports Preferences On-Prem Accounts Activity										
Virtual Acc	ount: CML -	bpaez					1 Major Hide Alerts			
General	Licenses	Product Instances	Event Log							
Virtual Ac	Virtual Account									
Description: Private virtual account for personal use of CML.										
Default Vir	tual Account:	No								
NGFjYjcwM TkzY2YxLTE AwYUxXbjN oNDM4%0A	NGFJYJcwMjY1ZjIkNi00ZDA4LTIhNWMtMzM4ZTJIO TkzY2YxLTE20T110DV3%0AMjI1NzI8SThuU0dhdF AwYUxXbjNBOVdUMGQwYVRjTVNnNXQvaHJ3bi9 oNDM4%0Ac0RCND0%3D%0A									
Press ctrl + c	to copy selected	text to clipboard.	Uses	Export-Controlled	Description	Created By	Actions			
NGFjYjcwMj The token wil	iYtZjlkNi0 2	2023-Aug-21 02:58:42 (in a either the expiration or the	30 days) 0 of 10 e maximum uses is reache	Allowed	SLP Test	bpaez	Actions -			

Step 5. Install Trust Code in Nexus switch.

Nexus#	license	smart	trust	idtoken	<token< th=""><th>from s</th><th>step 4</th><th>> all fo</th><th>orce</th><th></th><th></th><th></th><th></th><th></th></token<>	from s	step 4	> all fo	orce					
Initiat	ed trust	t estab	lishme	nt with	backend	l. run	show	license	status,	for	trust	estab]	ishment	status

Step 6. Ensure Nexus is present on CSSM.

Log in to **Cisco Software Central > Smart Software Licensing > Inventory > Product Instances**.

Cisco Software Central > Smart Software Licensing	mart Software Licensing									
Smart Software Licensing				SL Product Details Support Help						
Alerts Inventory Convert to Smart Licensing Repor	ts Preferences On-Prem Acc	ounts Activity								
Virtual Account: CML - bpaez				1 Major Hide Alerts						
General Licenses Product Instances	Event Log									
Authorize License-Enforced Features			Search by Device or by Product Type	0,						
Name	Product Type	Last Contact	Alerts	Actions						
UDI_PID:N9K-C9336C-FX2; UDI_SN:FDO24400PT4;	N9300	2023-Jul-22 01:51:0	И	Actions 👻						
				Showing 1 Record						

Step 7. Enable any feature that requires your desired license. For this example, a feature is enabled that requires an NX-OS LAN Enterprise Services license.



Note: NX-OS always asks for the leaf nodes in the license hierarchy. NX-OS always asks for Feature-Based Licenses, instead of Tier-Based Licenses.

Nexus(config)# feature eigrp

Step 8. Confirm you have the expected license (feature-based) in use.

Step 9. Verify the expected license is consumed on the Cisco site.

Log in to Cisco **Software Central > Smart Software Licensing > Inventory > Licenses**.

Cisco Software Central > Smart Software Licensing)	InternalTestDemo	Account69.cisco.com
Smart Software Licensing							SL Product D	etails Support Help
Alerts Inventory Convert to Smart Licensing R	eports Prefer	ences On-Prem Ac	counts Activity					
Virtual Account: CML - bpaez							1 Major	Hide Alerts
General Licenses Product Instances	Event Log							
							By Nan	te By Tag
Available Actions - Manage Licens	e Tags	License Reservation.		Show	License Transac	tions	Search by License	0
							Adv	anced Search 🗸
License	Billing	Available to Use	In Use	Substitution	Balance	Alerts	Å	Actions
	Prepaid	10	0	-	+10		1	Actions -
	Prepaid	2000	0	·	+2000		4	Actions -
● NXOS LAN for Nexus 9300 10G+ Leaf XF	Prepaid	1	1		0		/	Actions -

Log in to Cisco **Software Central > Smart Software Licensing > Inventory > Licenses**, Click the expected license from the list to see the details.

NXOS LAN	XOS LAN for Nexus 9300 10G+ Leaf XF in CML - bpaez									
Overview	Product Instances	Event Log	Transaction History							
Produ	ct Instance			Product Type	Licenses used					
UDI_P	ID:N9K-C9336C-FX2; UDI_	SN:FDO24400PT4;)	N9300	0					
					Showing 1 Record					
					_					
Actions 🔺					C	lose				

Step 10. Verify communication is successful with the Cisco site.

```
Nexus# 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: Smart URL: https://smartreceiver.cisco.com/licservice/license Proxy: Not configured Policy: Policy in use: Merged from multiple sources Reporting ACK required: Yes Unenforced/Non-Export: First report requirement (days): 90 (CISCO default) Ongoing reporting frequency (days): 365 (CISCO default) On change reporting (days): 90 (CISCO default) Enforced (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Export (Perpetual/Subscription): First report requirement (days): 0 (CISCO default) Ongoing reporting frequency (days): 0 (CISCO default) On change reporting (days): 0 (CISCO default) Miscellaneous: Custom Id: <empty> Usage reporting: Last ACK received: Jul 21 19:28:32 2023 UTC Next ACK deadline: Jul 20 19:28:32 2024 UTC Reporting push interval: 30 days Next ACK push check: <none> Next report push: Aug 20 19:23:33 2023 UTC Last report push: Jul 21 19:23:33 2023 UTC Last report file write: <none> Trust Code installed: Jul 21 19:18:04 2023 UTC Active: PID: N9K-C9336C-FX2, SN: FD024400PT4 Jul 21 19:18:04 2023 UTC

Nexus#

Method 2: CSLU

Before NXOS 10.3(2)F, only management VRF is supported on CSLU mode of transport. Starting from NXOS 10.3(2)F, non-management VRF is supported as well.

Step 1. Configure DNS client.



Note: You can skip to step 3 if you are not using a Fully Qualified Domain Name (FQDN) on the host running CSLU.

Nexus(config)# ip domain-lookup Nexus(config)# vrf context management Nexus(config-vrf)# ip name-server <dns server ip>

Step 2. Add an entry for cslu-local on your DNS server.



Note: Nexus automatically discovers hostname cslu-local and cslu-local.<domain>

Step 3. Ensure cslu transport is configured. This is the default configuration.

Nexus(config)# license smart transport cslu

Step 4. Indicate CSLU transport URL.

Nexus(config)# license smart url cslu http://<ip address of the host running CSLU>:8182/cslu/v1/pi

Step 5. Enable any feature that requires your desired license. For this example, you enable a feature that requires NX-OS LAN Enterprise Services license.



Note: NX-OS always asks for the leaf nodes in the license hierarchy. NX-OS always asks for Feature-Based Licenses, instead of Tier-Based Licenses.

Nexus(config)# feature isis

Step 6. Confirm you have the expected license (feature-based) in use.

Step 7. Send the license usage report (known as RUM report) to CSSM.

```
Nexus# license smart sync all
Initiated sync with backend.
```

Step 8. Click **Refresh Product Instance List** and verify product instance is present on CSLU, indicating **Complete: Usage report uploaded to CSSM**.

	10	1		
	Inventory Preference	s Scheduler		
Produ	uct Instances			
Add	Single Product Actions for S	Selected Refresh Pr	roduct Instance List	
	Name		Last Contact	Alerts
	Filter by Device Details		Filter by Last Contact	Filter by Alerts
	,			- COMPLETE: I know construction date COSM

Open CSLU > Inventory > Product Instances.

Step 9. Ensure Nexus is present on CSSM. This confirms communication works properly between CSLU and CSSM.

Log in to Cisco Software Central > Smart Software Licensing > Inventory > Product Instance.

Cisco Software Central > Smart Software Licensing	co Software Central > Smart Software Licensing								
Alerts Inventory Convert to Smart Licensing Reports	Preferences On-Prem Acc	ounts Activity							
Virtual Account: CML - bpaez				1 Major Hide Alerts					
General Licenses Product Instances	Event Log								
Authorize License-Enforced Features			Search by Device or by Product Type	٥,					
Name	Product Type	Last Contact	Alerts	Actions					
UDI_PID:N9K-C9336C-FX2; UDI_SN:FDO24400PT4;	N9300	2023-Jul-22 01:51:0	11	Actions -					
				Showing 1 Record					

Step 10. Verify the expected license was consumed on CSSM On-Prem local server.

Log in to **Cisco Software Central > Smart Software Licensing > Inventory > Licenses**.

Cisco Software Central > Smart Software Lic	InternalTestDemo/	Account69.cisco.cor						
Smart Software Licensi	ng						SL Product De	tails Support Hel
Alerts Inventory Convert to Smart Lice	nsing Reports Prefe	rences On-Prem A	ccounts Activity	e				
Virtual Account: CML - bpaez							1 Major	Hide Alerts
General Licenses Product	Instances Event Log							
							By Name	e By Tag
Available Actions - Man	age License Tags	License Reservation		🗹 Shov	/ License Transact	ions	Search by License	0
							Adva	nced Search 🗸
License	Billing	Available to Use	In Use	Substitution	Balance	Alerts	A	ctions
CML - Base CML - Base	Prepaid	10	0	-	+10		A	ctions -
	Prepaid	2000	0		+2000		A	ctions -
● NXOS LAN for Nexus 9300 10G	+ Leaf XF Prepaid	1	1	-	0		A	ctions -

Log in to **Cisco Software Central > Smart Software Licensing > Inventory > Licenses > Click on License > Product Instances**.

verview	Product Instances	Event Log	Transaction History		
Produ	ct Instance			Product Type	Licenses used
UDI_F	PID:N9K-C9336C-FX2; UDI_	SN:FDO24400PT4	k .	N9300	1
×			- 1		×-
×			-1		Showing 1 Recor
×			-1		Showing 1 Recor
·					Showing 1 Recor

Step 11. Verify communication is successful with the Cisco site.

```
Nexus# 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://10.201.255.233:8182/cslu/v1/pi
Policy:
    Policy in use: Merged from multiple sources
    Reporting ACK required: Yes
    Unenforced/Non-Export:
        First report requirement (days): 90 (CISCO default)
        Ongoing reporting frequency (days): 365 (CISCO default)
        On change reporting (days): 90 (CISCO default)
    Enforced (Perpetual/Subscription):
        First report requirement (days): 0 (CISCO default)
        Ongoing reporting frequency (days): 0 (CISCO default)
        On change reporting (days): 0 (CISCO default)
    Export (Perpetual/Subscription):
        First report requirement (days): 0 (CISCO default)
        Ongoing reporting frequency (days): 0 (CISCO default)
        On change reporting (days): 0 (CISCO default)
Miscellaneous:
    Custom Id: <empty>
Usage reporting:
    Last ACK received: <none>
    Next ACK deadline: Oct 20 01:09:12 2023 UTC
    Reporting push interval: 30 days
    Next ACK push check: Jul 22 01:18:02 2023 UTC
    Next report push: Aug 21 01:13:03 2023 UTC
    Last report push: Jul 22 01:13:03 2023 UTC
```

Last report file write: <none>

Trust Code installed: <none>



Note:

It is expected to see Trust Code Installed as in the show license status using this method.

It is expected to see Last ACK received as in the show license status the first time you sync up with CSSM On-Prem. This changes after the first Next report push is done.

Method 3: On-Prem License Server

- Only CSLU mode of transport is supported on On-Prem.
- Before NXOS 10.3(2)F, only management VRF is supported on CSLU mode of transport. Starting from NXOS 10.3(2)F, non-management VRF is supported as well.

Step 1. Configure DNS client.

Nexus(config)# ip domain-lookup Nexus(config)# vrf context management Nexus(config-vrf)# ip name-server <dns server ip>

Step 2. Ensure CSLU transport is configured. This is the default configuration.

```
Nexus(config)# license smart transport cslu
```

Step 3. Identify the CSLU transport URL.

Log in to **CSSM On-Prem > Smart Software Manager On-Prem > Select Local Virtual Account** (top right corner). From the drop-down menu, choose **Inventory > General**, then click **CSLU Transport URL** to copy.

On-Pre	em License Wo	rkspace			cisi	0 0	Ad	min Workspace	💄 Hello, Bidk	ar Herson Paez Lamp	on Log (
Smart Softw	are Manager On-Prem >	Smart Licensing								CX Americas DCRS VX	LAN v4 👻
Sm	art Licensing										
	Alerts Inventory	Convert to	Smart Licensing	Reports	Preferences	Activity					
Loca	Il Virtual Account:	Default Licenses	Product Instan	ces SL Us	sing Policy	Event Log					
Lo	cal Virtual Account										
	Description Default Local Virtual Accou	nt:	This is the defa Yes	ult virtual account	created during con	pany account creati	ion.				
Prn Thu Sm still Gu	oduct Instance Registra e registration tokens below ca nart Transport Registration UR I use Smart Call Home, you m ide for setting the destination ew Token	tion Tokens n be used to register ne L.For products that sup ust configure the "desti URL value.	w product instances to port Smart Licensing I nation address http* o	o this Local Virtual Ar Jaing Policy that use In the product to use	ccount. For products th cslu as transport, you the Smart Call Home R	at support Smart Transp must configure the 'licer egistration URL. The rec	port, you must configure nse smart transport calu commended method is t	the "license smart " to use the CSLU T Smart Transport. Ple	ud" on the product fransport URL For base consult your F	to use the legacy products that Products Configuration	

Step 4. Indicate CSLU transport URL.

Nexus(config)# license smart url cslu https://<on-prem hostname>/cslu/v1/pi/<virtual account>

Step 5. Enable any feature that requires your desired license. For this example, a feature is enabled that requires an NX-OS LAN Enterprise Services license.



Note: NX-OS always asks for the leaf nodes in the license hierarchy.

NX-OS always asks for Feature-Based Licenses, instead of Tier-Based Licenses.

Nexus(config)# feature ospf

Step 6. Confirm you have the expected license (feature-based) in use.

Nexus# license smart sync all Initiated sync with backend.

Step 8. Ensure Nexus is present on CSSM On-Prem.

Log in to **CSSM On-Prem > Smart Software Manager On-Prem > Select Local Virtual Account** (top right corner). From the drop-down menu, choose **Inventory > SL Using Policy**.

On-Prem License Works	pace	cisco	Admin Workspace 🔒 Hello, Bidkar Herson Paez Lampon Log Out
Smart Software Manager On-Prem > Smart	Licensing		CX Americas DCRS VXLAN v4 👻
Smart Licensing			
Local Virtual Account: Defau General Lic Add Single Product Actio	Lit enses Product Instances ns for Selected ~ Export/Import Al	SL Using Policy Event Log	Search by Name Q
Name UDL_PID:N9K-C9336C- FX2;UDL_SN:FD0243410	Product Type 7N;UDL_VID:; N9300	Last Contact 2023-Jul-20 18:11:29	10 Image: Showing Page 1 of 1(1 Records) Image: Showing Page 1 of

Step 9. Verify the expected license was consumed on CSSM On-Prem local server.

Log in to **CSSM On-Prem > Smart Software Manager On-Prem > Select Local Virtual Account** (top right corner) from the drop-down **menu > Inventory > Licenses**.

On-Prem License Workspace			cisco	•		Admin Workspace	🛔 Hello, Bidkar Herson Paez Lampon	Log Out
Smart Software Manager On-Prem > Smart Licensing Smart Licensing							CX Americas DCRS VXLAN	v4 ¥
Alerts Inventory Convert to Smith Local Virtual Account: Default General Licenses Available Actions ~ Manage License Tags	Product Instances	Reports P SL Using Po	Hicy Ev	Activity		Sean	By Name By Tag ch by License Q	
License NXOS LAN for Nexus 9300 10G+ Leaf XF	Billing Prepaid	Available to Use	In Use	Substitution	Balance 0	Alerts O Insufficient Lice	Actions enses Actions *	

Log in to **CSSM On-Prem > Smart Software Manager On-Prem > Select Local Virtual Account** (top right corner). From the drop-down menu, choose **Inventory > Licenses**. Click the expected license from the list to see the details.

NXOS LAN for Nexus 9300 10G+ Leaf XF In Default 20 LAN license for Nexus 9300-XF Product Instances Event Log **Transaction History** Overview Product Instance Product Type Licenses Used UDI_PID:N9K-C9336C-FX2;UDI_SN:FDO2434107N;UDI_VID:; (1) N9300 ------Showing All 4 Records Transfer License...



Note: It is expected to see Trust Code Installed as <none> in in show license status using this method.

It is expected to see Last ACK received as in show license status the first time you sync up with CSSM On-Prem. This changes after the first Next report push is done.

Method 4: Offline

Step 1. Disable smart transport mode.

Nexus(config)# license smart transport off

Step 2. Enable any feature that requires your desired license. For this example, a feature is enabled that requires an NX-OS LAN Enterprise Services license.



Note: NX-OS always asks for the leaf nodes in the license hierarchy.

NX-OS always asks for Feature-Based Licenses, instead of Tier-Based Licenses.

RUM reports cannot be saved if no licensing features are active. The RUM reports capture the licensing transactions in the device for upload. On a greenfield device, there is nothing to report, so it is empty and not generated.

Nexus(config)# feature bgp

Step 3. Confirm you have the expected license (feature-based) in use.

Step 4. Generate and save RUM report.

Nexus# license smart save usage all bootflash:all_rum.txt Success: Saved in bootflash:/all_rum.txt.

Step 5. Copy the file from Step 4 to a device with an Internet connection.

Step 6. Upload RUM report (usage data) to CSSM.

Log in to Cisco Software Central > Smart Software Licensing > Reports > Usage Data Files.

Step 6a. Click Upload Usage Data.

Cisco Software	Central > Smart Softwa	re Licensing					Ш	InternalTestDemoAcco	unt69.cisco.co
Smart S	Software Licer	nsing						SL Product Details	Support He
Alerts Inver	ntory Convert to Smart	Licensing Repo	rts Preferenc	es On-Prem Accounts Ac	ctivity				
Reports									
Report	Usage Data Files	Reporting Policy	Synch Fi	le for Device Controllers					
Devices can This usage t	be configured to report the	e features that they a nses are needed, in a	re using. order to be compl	iant.		Search by File Name. Vi	irtual Account		0
(+) Usage	e Data File	F	Reported	Virtual Account	Reporting	Status	Devices	Acknowledgeme	nt

Step 6b. Click Browse.



Step 6d. Select the Virtual Account that receives the uploaded file from the drop-down menu, then click **Ok**.

Select Virtual Accounts

Some of the usage data files do not include the name of the virtual account that the data refers to, or the virtual account is unrecognized.

Please select an account: AO Select one account for all files: Select VA Select a virtual account per file: Cancel Ok X

Select Virtual Accounts

Some of the usage data files do not include the name of the virtual account that the data refers to, or the virtual account is unrecognized.

Please select an account:

AO Select one account for all files:	Select VA
 Select a virtual account per file: 	CML - bpaez

Select Virtual Accounts

Some of the usage data files do not include the name of the virtual account that the data refers to, or the virtual account is unrecognized.

Please select an account:



Step 7. Wait for **Reporting Status** to change to **No errors**, then click **Download** to get the ACK file.

Cisco Software	Central > Smart Softwa	re Licensing				đì	InternalTestDemoAccou	nt69.cisco
Smart S	Software Lice	nsing					SL Product Details	Support
lerts Inve	ntory Convert to Smar	t Licensing Reports	Preference	es On-Prem Accounts A	ctivity			
Reports								
Report	Usage Data Files	Reporting Policy	Synch Fil	e for Device Controllers				
Devices can This usage t	be configured to report the then determines which lice	e features that they are enses are needed, in ord	using. er to be compli	ant.				
Upload	Usage Data				Search by File Na	ame, Virtual Account		0
🕀 Usag	e Data File	Rep	orted	Virtual Account	Reporting Status	Devices	Acknowledgemen	ıt
all_rur	n.txt	202	3-Jul-22	CML - bpaez	A Data Being Processed	[0]	Pending	
Smart S	Software Lice		Proference	s On-Prem Accounts A	Hivity		SL Product Details	Support
Reports			1					
Report	Usage Data Files	Reporting Policy	Synch Fil	e for Device Controllers				
Devices can This usage t	be configured to report the then determines which lice	e features that they are enses are needed, in ord	using. er to be compli	ant.				
Upload	Usage Data				Search by File Na	ame, Virtual Account		0
🕀 Usag	e Data File	Rep	orted	Virtual Account	Reporting Status	Devices	Acknowledgemen	ıt
all_rur	n.txt	202	3-Jul-22	CML - bpaez	1 No Errors	$(\overline{1})$	Download	

Step 8. Ensure Nexus is present on CSSM.

Cisco Software Central > Smart Software Licensing			ci)	InternalTestDemoAccount69.cisco.com
Smart Software Licensing				SL Product Details Support Help
Alerts Inventory Convert to Smart Licensing Reports	Preferences On-Prem Ac	counts Activity		
Virtual Account: CML - bpaez				1 Major Hide Alerts
General Licenses Product Instances Eve	ent Log			
Authorize License-Enforced Features		S	Search by Device or by Product Type	٩,
Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:N9K-C9336C-FX2; UDI_SN:FDO24400PT4;	N9300	2023-Jul-22 01:51:01		Actions -
				Showing 1 Record

Step 9. Verify the expected license was consumed on the <u>Cisco site</u>.

Log in to **Cisco Software Central > Smart Software Licensing > Inventory > Licenses**.

On-Prem License Workspace			uluilu cisco			Admin Workspa	ce 🛔 Hello, Bidkar Herson P	aez Lampon Log Or
Smart Software Manager On-Prem > Smart Licensing Smart Licensing							CX America	s DCRS VXLAN v4 👻
Alerts Inventory Convert to Smar	rt Licensing	Reports P	references	Activity				
Local Virtual Account: Default General Licenses I	Product Instances	SL Using Po	licy Eve	nt Log				
Available Actions - Manage License Tags								
						10 v Sh	Search by License	ag Q ≫ N
License	Billing	Available to Use	In Use	Substitution	Balance	Alerts	Actions	
NXOS LAN for Nexus 9300 10G+ Leef XF	Prepaid	1	1		0	8 Insufficier 10 ▼ Sh	nt Licenses Actions -	₩ ₩

Log in to **Cisco Software Central > Smart Software Licensing > Inventory > Licenses**, Click the expected license from the list to see the details.

NXOS LAN for Nexus 9300 10G+ Leaf XF In Default

LAN license for Nexus 9300-XF

UDI_PID:N9K-C9336C-FX2;UDI_SN:FDO2434107N;UDI_VID:; N9300 [1]		enses Osed	Licenses Us	Product Type		ance	Product Insta
	All 4 Record) Showing All 4	(1_)	N9300	DO2434107N;UDI_VID:;	K-C9336C-FX2;UDI_SN:F	UDI_PID:N9H
	All 4 Recor	Showing All 4					

×

Step 10. Upload the ACK file from step 7 to the Nexus switch.

Step 11. Install ACK file in Nexus switch.

Nexus# license smart import bootflash:ACK_all_rum.txt Done smart import.

Step 12. Verify ACK was installed successfully.



Note: It is expected to see Trust Code Installed as <none> in show license status output using this method.

Nexus# 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: Off
Policy:
    Policy in use: Merged from multiple sources
    Reporting ACK required: Yes
    Unenforced/Non-Export:
        First report requirement (days): 90 (CISCO default)
        Ongoing reporting frequency (days): 365 (CISCO default)
        On change reporting (days): 90 (CISCO default)
    Enforced (Perpetual/Subscription):
        First report requirement (days): 0 (CISCO default)
        Ongoing reporting frequency (days): 0 (CISCO default)
        On change reporting (days): 0 (CISCO default)
    Export (Perpetual/Subscription):
        First report requirement (days): 0 (CISCO default)
        Ongoing reporting frequency (days): 0 (CISCO default)
        On change reporting (days): 0 (CISCO default)
Miscellaneous:
    Custom Id: <empty>
Usage reporting:
    Last ACK received: Jul 21 20:29:40 2023 UTC
    Next ACK deadline: Oct 19 20:29:40 2023 UTC
    Reporting push interval: 30 days
    Next ACK push check: <none>
    Next report push: Jul 21 20:02:40 2023 UTC
    Last report push: <none>
    Last report file write: <none>
Trust Code installed: <none>
```

Related Information

- <u>Cisco NX-OS Licensing Options Guide</u>
- <u>Cisco Nexus 9000 and 3000 Series NX-OS Smart Licensing Using Policy User Guide</u>