



Cisco Cyber Vision Smart Licensing User Guide, Release 4.2.0

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CHAPTER 1

About this documentation

- [Document purpose, on page 1](#)
- [Warnings and notices, on page 1](#)

Document purpose

This document explains how to manage licenses in Cisco Cyber Vision for an online registration, an offline registration, in the case of a Managed Service License Agreement and an On-Prem registration.

This manual applies to **system version 4.2.0**.

Warnings and notices

This manual contains notices you have to observe to ensure your personal safety as well as to prevent damage to property.

The notices referring to your personal safety and to your property damage are highlighted in the manual by a safety alert symbol described below. These notices are graded according to the degree of danger.



Warning

Indicates risks that involve industrial network safety or production failure that could possibly result in personal injury or severe property damage if proper precautions are not taken.



Important

Indicates risks that could involve property or Cisco equipment damage and minor personal injury if proper precautions are not taken.



Note

Indicates important information on the product described in the documentation to which attention should be paid.



CHAPTER 2

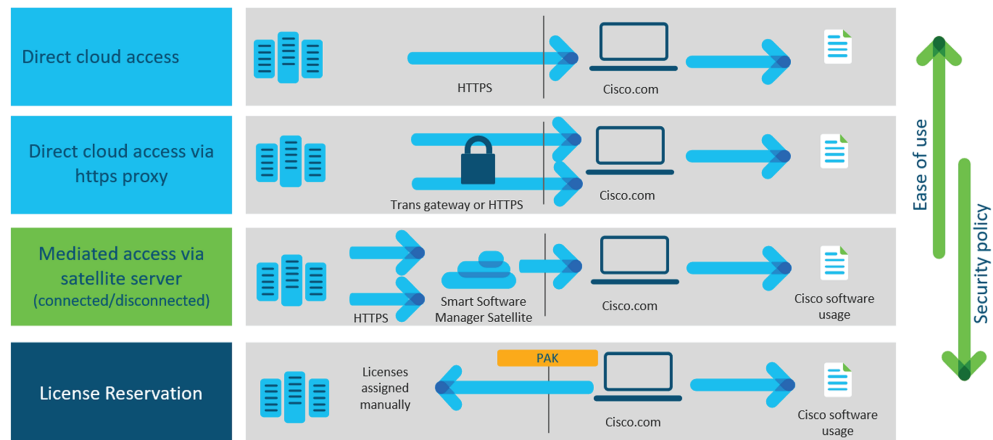
Introduction

- [Smart Licensing, on page 3](#)
- [Essentials and Advantage licenses, on page 5](#)
- [Snort IDS licenses, on page 6](#)

Smart Licensing

When you install Cisco Cyber Vision for the first time you get a 90-day trial. Once the trial expires, a connection to the cloud is required so components can be counted and billed in order to continue using Cisco Cyber Vision. Different options exist to get a license depending on the network configuration, its network policy, and whether there is a third-party service provider involved.

An online environment can benefit from a direct connection to the cloud, possibly through a proxy, whereas an offline environment will require an additional license reservation. Industrial networks with many Cisco Cyber Vision Centers to manage may be equipped with a local satellite and use Cisco Smart Software Manager Satellite On-Prem as licensing service. Likewise, customers dealing with a third-party service provider must use a local On-Prem satellite, but under the Managed Service License Agreement.



Smart Licensing Services:

- Cisco Smart Software Manager (CSSM): licensing service located in the cloud.

- Cisco Smart Software Manager Satellite On-Prem (CSSM On-Prem): a local service, also named satellite, which connects to the cloud for license requests.

Online registration: flexible security policy, ease of use. A number of Cisco Cyber Vision credits is purchased through a Smart Account and any Center from the package can use these credits. To retrieve a license and ensure credit management, the Cisco Cyber Vision Center sends usage information to the cloud directly over the internet or via a https proxy. No additional components are required for this connection mode. Access: CSSM or CSSM On-Prem.

Offline registration: strong security policy. As opposed to online registration, the association credits-Center is done manually by the user. Getting a license requires the License Reservation feature to be enabled and information to be copied and pasted between Cisco Cyber Vision and cisco.com. The procedure to get a license is described in the [Offline licensing, on page 25](#) section. Access: CSSM.

Managed Service License Agreement: MSLA is a buying program used whenever there is a third-party service provider involved (i.e. the environment can be whether online or offline). This mode requires the use of Cisco Smart Software Manager Satellite On-Prem, which is an on-site license server through which the license request is done to cisco.com. The procedure to retrieve a license is very similar to the online one and are described under the same section. Access: CSSM On-Prem.

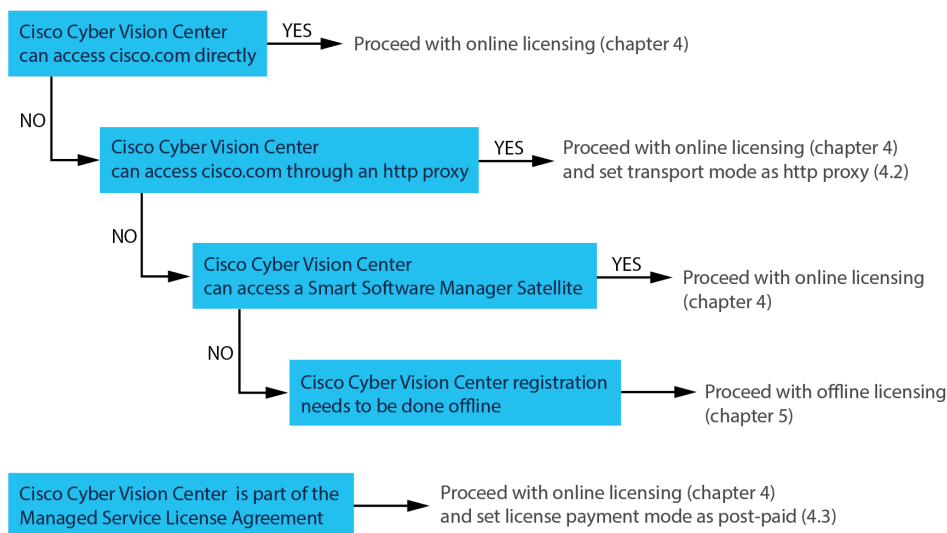
On-Prem registration: On-Prem registration is also available without MSLA, especially useful in industrial networks with numerous Centers to manage. Each Cisco Cyber Vision Center sends usage information to a locally installed appliance named satellite. Information with cisco.com is sent periodically to keep the satellite in synchronization. This synchronization can occur automatically in connected environments or manually in disconnected environments. Access: CSSM On-Prem.

License registration mode	Transport modes
Online	Direct to cisco.com
	Direct to cisco.com via proxy
	On-Prem (satellite)
Offline	Direct to cisco.com with License Reservation
MSLA (online/offline)	On-Prem (satellite)



Important

As the installation procedure for online licensing, MSLA and On-Prem (satellite) are very close, they are grouped under the same section. Refer to the [Online licensing/MSLA/On-Prem](#) section.



Essentials and Advantage licenses

Cisco Cyber Vision provides two different feature packages. The Essentials license provides basic features whereas the Advantage one includes Essentials features, plus advanced features, all listed herebelow. These licenses can be enabled from the License administration page in Cisco Cyber Vision and the activation of the Advantage license could lead to additional costs. In addition, note that to use Snort subscriber rules on sensors with IDS the Advantage license must be enabled.

Cisco Cyber Vision Essentials

Inventory

- Device inventory
- Identify communication patterns
- Generate inventory reports

Vulnerability

- Identify device vulnerabilities
- Generate vulnerability reports

Activities

- Track control system events
- Generate device activity reports

RESTful API

- REST API programming interface

Cisco Cyber Vision Advantage

It includes Essentials features, plus:

Security posture

- Device Risk Scoring

Intrusion detection

- Snort IDS on supported sensors
- Talos community signatures (New rules may be added 30 days after release)

Behavior monitoring

- Create baselines for asset behaviors
- Alerts on deviations

Advanced integration

- SecureX Ribbon
- pxGrid integration with ISE
- Firepower Host Attribute integration
- SIEM Integration – Splunk, IBM QRadar
- ServiceNow OT Management integration

Snort IDS licenses

It is possible to use Snort Intrusion Detection System Community and Subscriber rules on Cisco Cyber Vision through the following compatible sensors:

- Cisco IC3000 Industrial Compute Gateway
- Cisco Catalyst 9300 Series Switches
- Cisco Catalyst 9400 Series Switches
- Cisco IR8340 Integrated Services Router Rugged
- Center DPI (one sensor IDS license must be installed per Center DPI interface)

Snort IDS is only available with the Advantage license enabled on Cisco Cyber Vision.

You can enable IDS on each compatible sensor from the sensor right side panel in the sensor administration page. By default, Community rules are enabled.

A toggle button is available in the Snort administration page for Subscriber rules to take over detection.

Note that Subscriber rules will be enabled on all compatible sensors with IDS enabled. This means that it is not possible to have sensors running with Community rules and others running with Subscriber rules at the same time. An IDS license reservation token is also required per sensor with IDS enabled with Subscriber rules.

If the industrial network is monitored by ten Cisco Catalyst 9300 but only one has IDS enabled, then only one reservation token is required.

In case of offline licensing, you must update the license manually to reserve tokens. To do so, follow the [Update license registration](#) procedure.

For more information, refer to the Cisco Cyber Vision GUI Administration Guide.



CHAPTER 3

Requirements

- [Requirements, on page 9](#)

Requirements

- An access to CSSM or CSSM On-Prem.
- An Admin or Product access to Cisco Cyber Vision.



CHAPTER 4

Online licensing/MSLA/On-Prem

This section describes how to get a license and applies to the following use cases:

- Getting a license through direct cloud access, over the internet or through a http proxy server.
- Getting a license as part of the Managed Service License Agreement (online and offline environments)
- Getting a license through an On-Prem access (online and offline environments)

You will:

1. Set Cisco Cyber Vision Center license (Essentials or Advantage).
2. [Set transport mode \(Direct and proxy connection or Transport gateway\)](#).
3. [Set license payment mode \(MSLA only\) \(MSLA only\)](#).
4. [Create a token](#).
5. [Register the Center](#).

[Return to evaluation mode](#) is explained at the end of this section and applies to all use cases mentioned above.

- [Get a license, on page 11](#)
- [Return to evaluation mode, on page 21](#)

Get a license

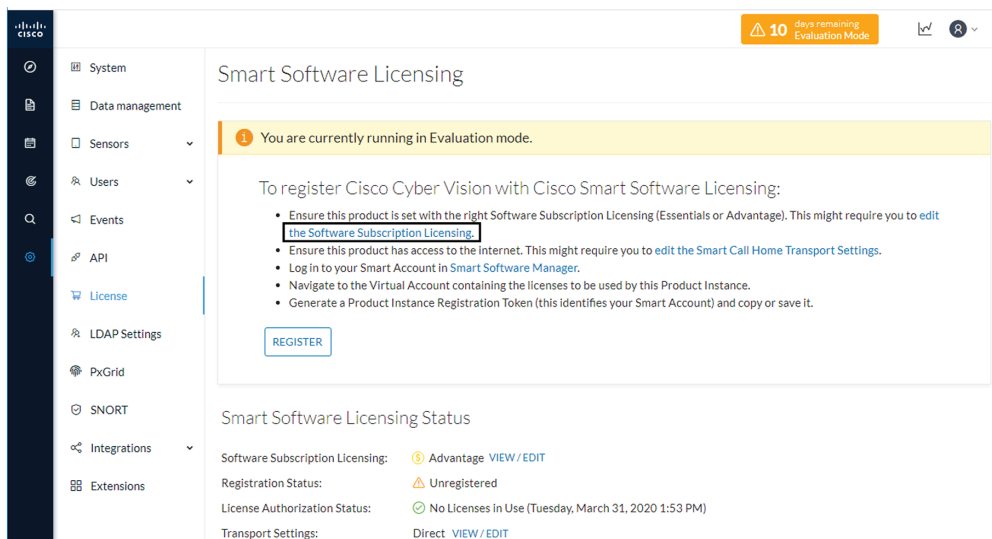
Set Cisco Cyber Vision Center license

Before starting with license registration, make sure that the license type set is relevant to the Center usage. You can choose between Essentials and Advantage. Note that changing this setting can cause additional costs.

To set the Cisco Cyber Vision Center's license:

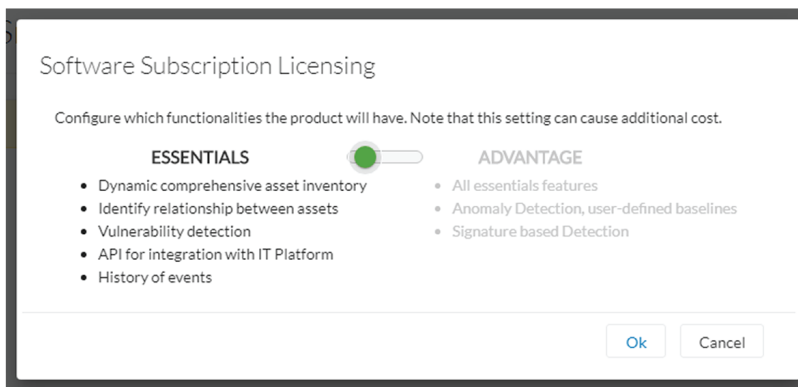
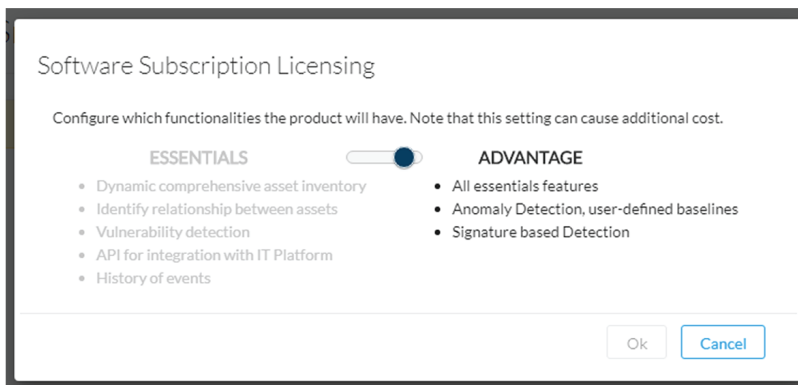
Procedure

- Step 1** Navigate to System Administration > License.
- Step 2** Click "edit the Software Subscription Licensing".



Step 3 Toggle the button to select the license type (Essentials or Advantage).

Note By default, the license type is set to Advantage.



Set transport mode

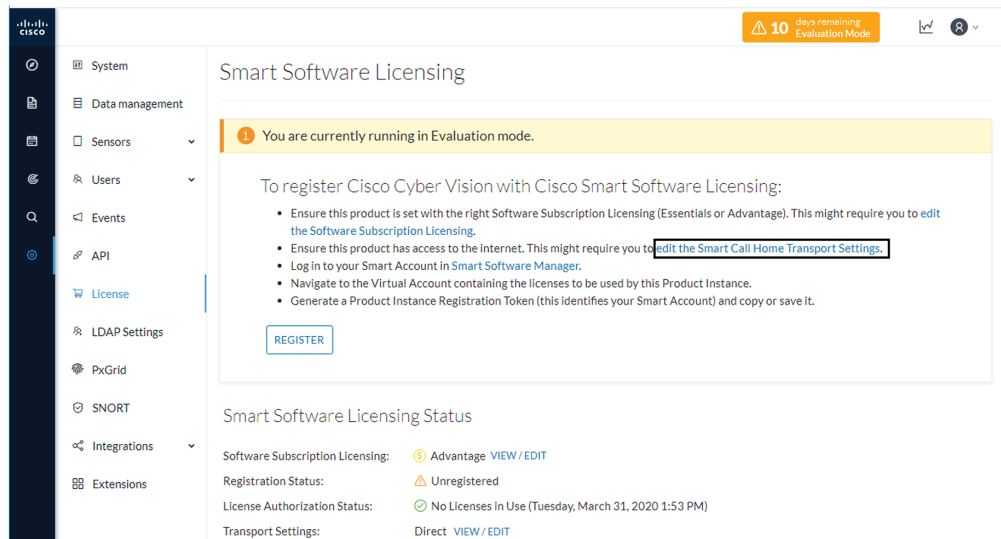
A network path to Cisco license server must be set so the Center can communicate directly or through a proxy with the cloud, or with an on-site satellite. This section explains how to set the transport mode accordingly.

- In case of direct connection to the cloud or through a proxy, or if CSSM On-Prem is used (independently of the MSLA), refer to the [Direct and proxy connection](#) procedure.
- If needed or if CSSM On-Prem is used as part of the Managed Service License Agreement (MSLA), refer to the [Transport gateway](#) procedure.

Direct and proxy connection

Procedure

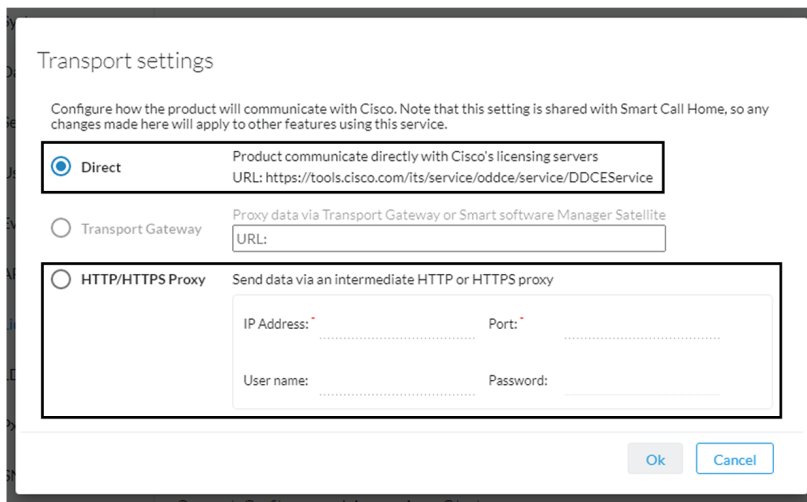
Step 1 In Cisco Cyber Vision, click **edit the Smart Call Home Transport Settings**.



The transport settings window pops up.

Step 2 Select how the Cisco Cyber Vision Center will reach the CSSM (cloud).

- The option Direct is selected by default. It means that the Cisco Cyber Vision Center has secure access to the Internet and can reach the CSSM server using a ciphered connection.
- The option HTTP/HTTPS Proxy should be selected if the Cisco Cyber Vision Center has access to the Internet through a Proxy.



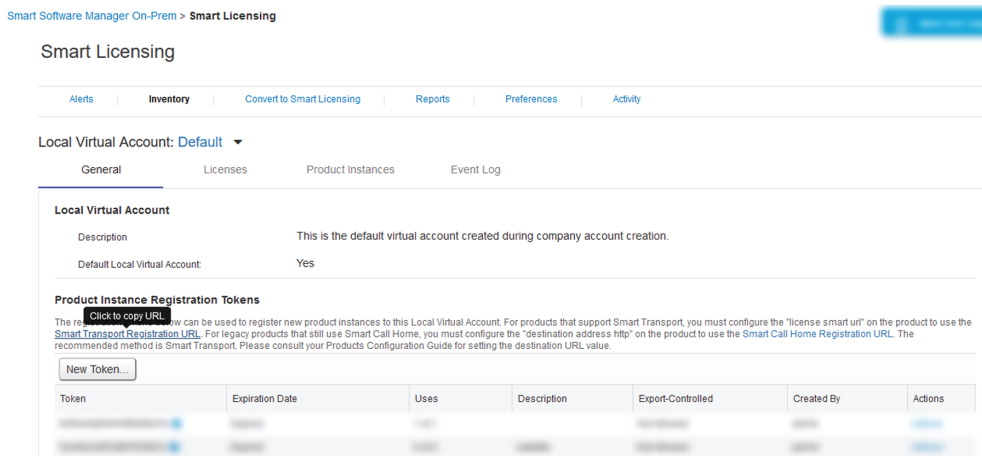
Transport gateway

If required, or if the license is being deployed as part of the Managed Service License Agreement, set the transport mode as transport gateway.

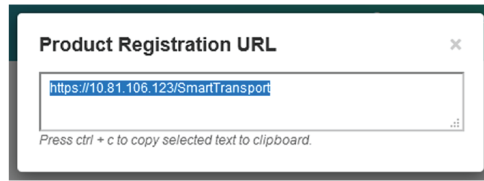
To set the transport mode as transport gateway:

Procedure

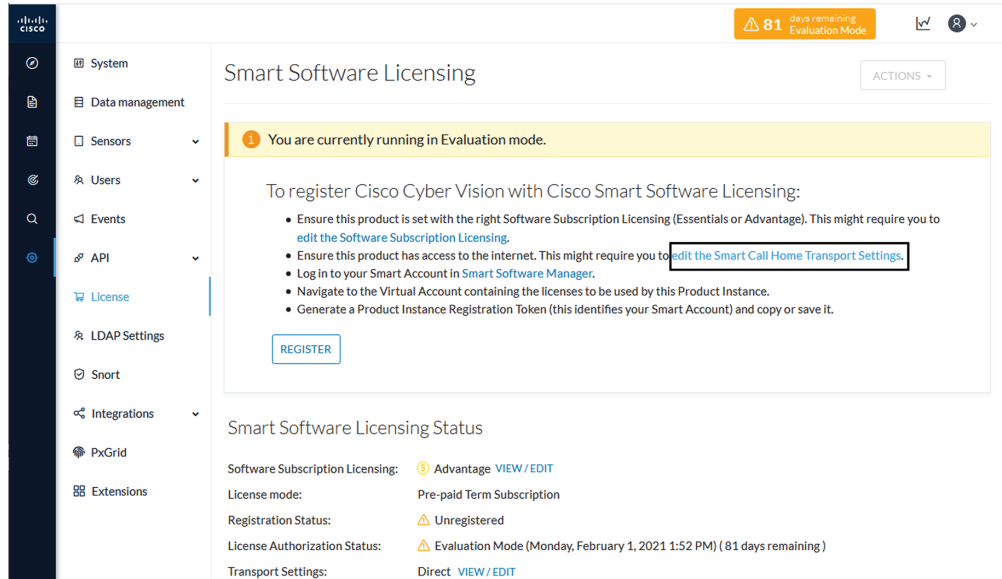
- Step 1** In CSSM On-Prem, navigate to Smart Licensing > Inventory > General.
- Step 2** Click the link **Smart Transport Registration URL**.



- Step 3** Copy the Product Registration URL that is displayed in the pop-up.

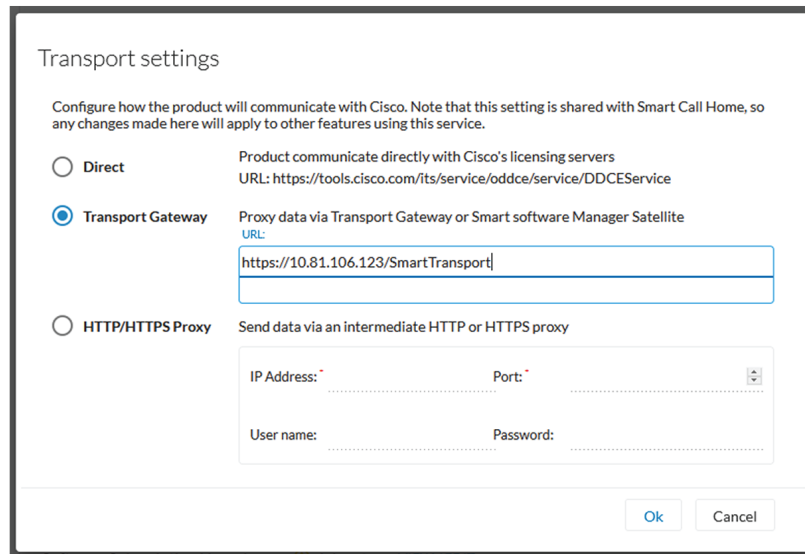


Step 4 In Cisco Cyber Vision > Admin > License, click the link **edit the Smart Call Home Transport Settings**.



The Transport settings window pops up.

Step 5 Select **Transport Gateway** and paste the Product Registration URL.



Step 6 Click **Ok**.

Step 7 In the license administration page of Cisco Cyber Vision, check that the transport mode is set to **Transport Gateway**.

Smart Software Licensing Status

Software Subscription Licensing:	📄 Advantage VIEW / EDIT
License mode:	Pre-paid Term Subscription
Registration Status:	⚠️ Unregistered
License Authorization Status:	⚠️ Evaluation Mode (Monday, February 1, 2021 1:52 PM) (81 days remaining)
Transport Settings:	Transport Gateway VIEW / EDIT

Set license payment mode (MSLA only)

This section is only applicable in the case of a Managed Service License Agreement.

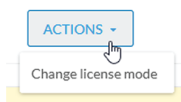
To set the license mode to Post-paid Usage Subscription (MSLA only):

Smart Software Licensing Status

Software Subscription Licensing:	📄 Advantage VIEW / EDIT
License mode:	Pre-paid Term Subscription
Registration Status:	⚠️ Unregistered
License Authorization Status:	⚠️ Evaluation Mode (Monday, February 1, 2021 1:52 PM) (81 days remaining)
Transport Settings:	Transport Gateway VIEW / EDIT

Procedure

Step 1 In Cisco Cyber Vision, click the Actions button located at the top right corner of the license administration page, and click Change License mode.



The Configure License mode window pops up.

Step 2 Use the toggle button to enable the utility mode.

Configure License mode

Enable the Utility mode and fill customer informations will activate the Post-paid Usage Subscription.
 The Smart Agent will send license usage reports to a licensing satellite or server every four hours. The usage reports will be forwarded to a billing server and the customer will received a monthly bill for their license usage.

Utility mode: Enabled

Customer informations (optional)

Customer ID:	Customer name:
Customer street:	Customer city:
Customer state:	Customer country:
Customer postal code:	

Step 3 Click Activate Post-paid Usage Subscription.

In the license administration page, check that the license mode is set to Post-paid Usage Subscription.

Smart Software Licensing Status

Software Subscription Licensing: \$ Advantage [VIEW / EDIT](#)

License mode: Post-paid Usage Subscription

Registration Status: ⚠ Unregistered

License Authorization Status: ⚠ Evaluation Mode (Monday, February 1, 2021 1:52 PM) (81 days remaining)

Transport Settings: Transport Gateway

Create a token

This section describes how to create a license token, set its expiration date and maximum number of use.

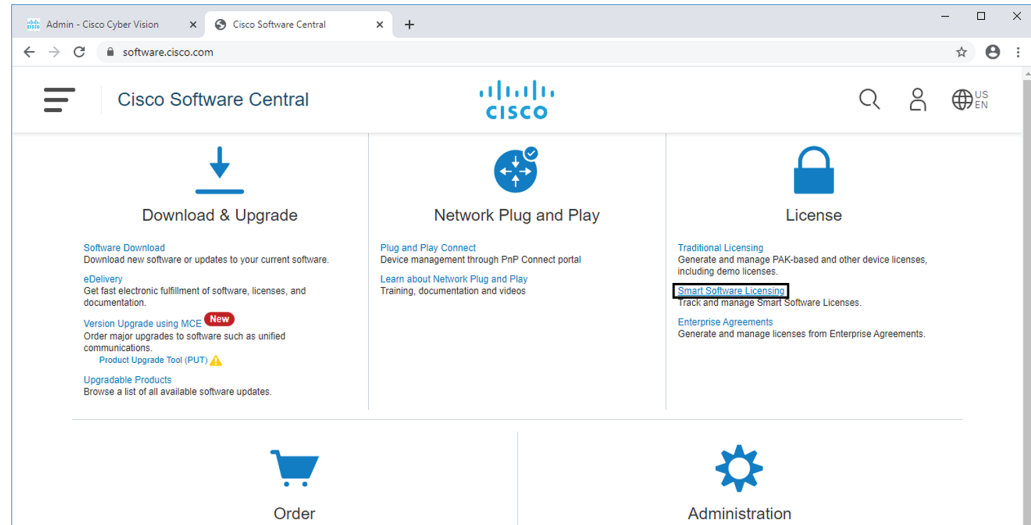


Note As CSSM and CSSM On-Prem are equivalent products and have similar aspects, only screenshots of CSSM are shown in the procedure described below.

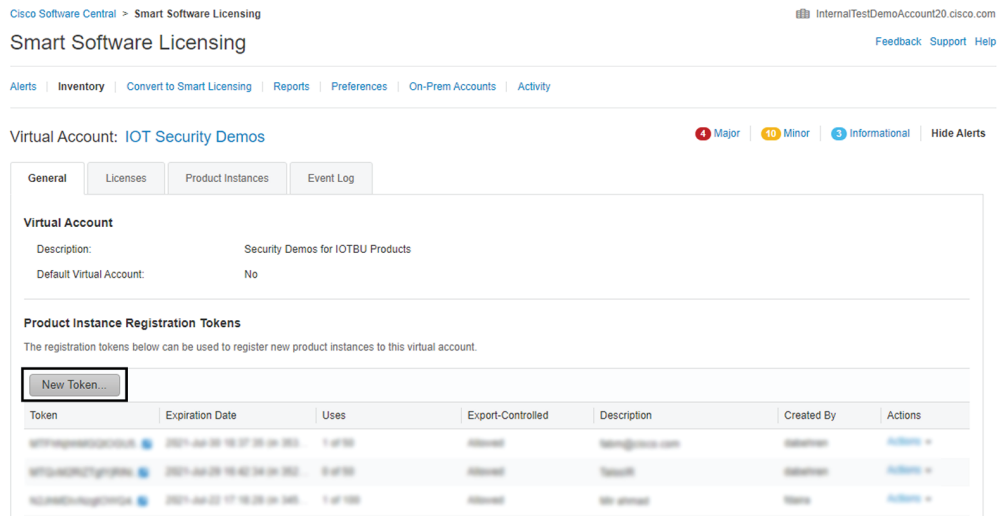
To create a token:

Procedure

- Step 1** Access and log in to the CSSM (or CSSM On-Prem).
- Step 2** In Cisco Software Central, under License, click Smart Software Licensing.
In Smart Software Manager On-Prem, click Smart Licensing.



- Step 3** Click the Inventory menu.
- Step 4** Click the New Token button.



A Create Registration Token pop up opens.

Step 5 Fill in the following fields:

- Description: add a description to identify the Center's owner or purpose.
- Expire after: the token will expire after the amount of days indicated in this field.
- Max. Number of Uses: the token will expire as login accesses reach the number indicated in this field.

Step 6 Click the Create Token button.

The new token appears in the list.

Virtual Account: IOT Security Demos

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

Major | Minor | Informational | Hide Alerts

General | Licenses | Product Instances | Event Log

Virtual Account

Description: Security Demos for IOTBU Products
 Default Virtual Account: No

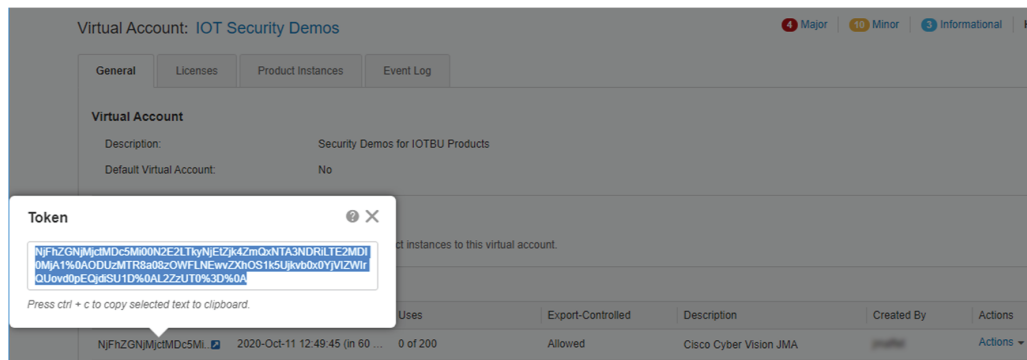
Product Instance Registration Tokens

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
NjFhZGNjMjc1MDc5Mi...	2020-Oct-11 12:49:45 (in 60 ...)	0 of 200	Allowed	Cisco Cyber Vision JMA	csd@cs.com	Actions
...	2021-Jun-28 16:27:26 on 2021...	1 of 100	Allowed	Actions
...	2021-Jun-28 16:42:04 on 2021...	0 of 100	Allowed	Actions
...	2021-Jun-22 17:16:28 on 2021...	1 of 100	Allowed	Actions

Step 7 Click the blue arrow next to the token name and copy it.

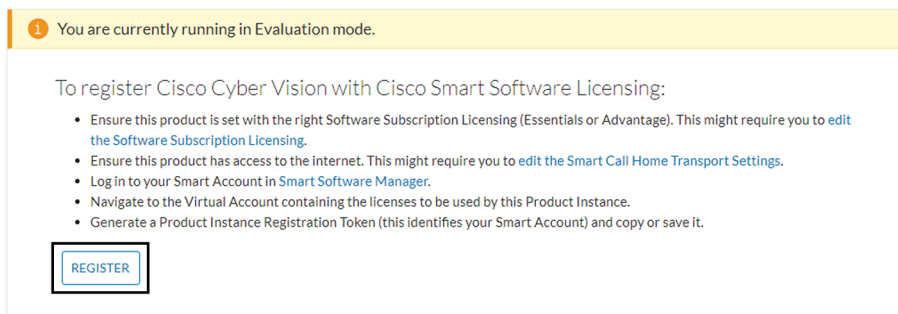


Register the Center

To register the Cisco Cyber Vision Center:

Procedure

Step 1 In Cisco Cyber Vision, click the button Register.



The Smart Software Licensing Product Registration window opens.

Step 2 Paste the token into the text field and click Register.

The registration status should turn to Registered.

Step 3 If Transport Gateway was selected when selecting the network path as it is the case when doing MSLA, the license mode will switch from Pre-paid to Post-paid usage subscription.

The installation of the license is complete and you can continue using Cisco Cyber Vision.

Return to evaluation mode

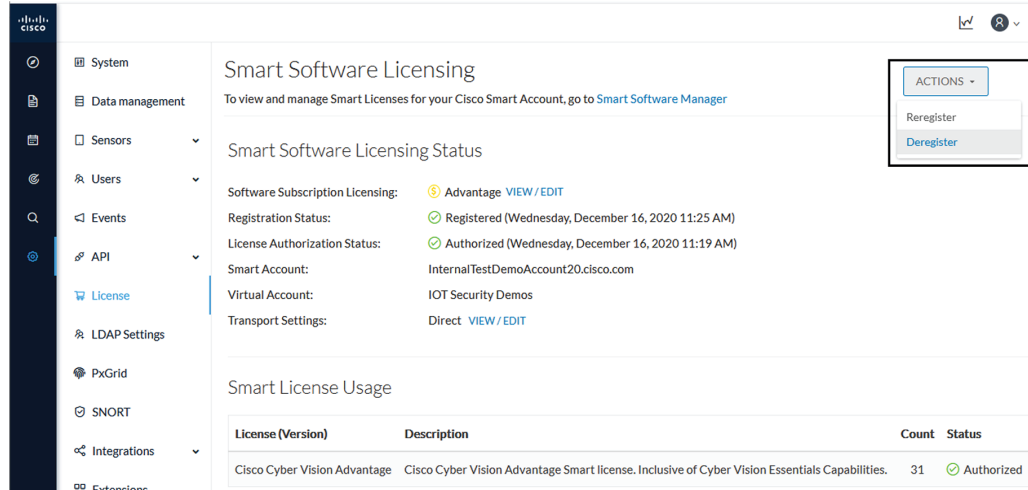
To return to evaluation mode, you need to deregister the Center from the online reservation.

Once back to evaluation mode, the 90-day countdown resumes where it has stopped. If the countdown has reached zero, access to Cisco Cyber Vision user interface will be prevented.

To deregister the Cisco Cyber Vision Center:

Procedure

Step 1 In Cisco Cyber Vision, click the button Actions > Deregister.



The screenshot shows the Cisco Cyber Vision interface for Smart Software Licensing. The left sidebar contains navigation options: System, Data management, Sensors, Users, Events, API, License (selected), LDAP Settings, PxGrid, SNORT, Integrations, and Extensions. The main content area is titled 'Smart Software Licensing' and includes a link to 'Smart Software Manager'. Below this is the 'Smart Software Licensing Status' section, which displays the following information:

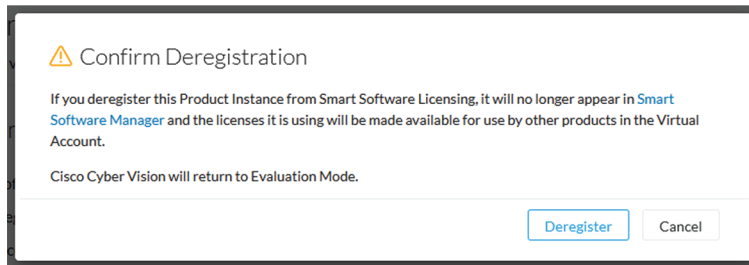
- Software Subscription Licensing: Advantage [VIEW / EDIT](#)
- Registration Status: Registered (Wednesday, December 16, 2020 11:25 AM)
- License Authorization Status: Authorized (Wednesday, December 16, 2020 11:19 AM)
- Smart Account: InternalTestDemoAccount20.cisco.com
- Virtual Account: IOT Security Demos
- Transport Settings: Direct [VIEW / EDIT](#)

Below the status section is the 'Smart License Usage' table:

License (Version)	Description	Count	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	31	Authorized

A red box highlights the 'ACTIONS' dropdown menu in the top right corner, which contains the 'Deregister' option.

Step 2 Confirm by clicking Deregister.



The screenshot shows a 'Confirm Deregistration' dialog box with a warning icon. The text inside the dialog reads:

If you deregister this Product Instance from Smart Software Licensing, it will no longer appear in [Smart Software Manager](#) and the licenses it is using will be made available for use by other products in the Virtual Account.

Cisco Cyber Vision will return to Evaluation Mode.

At the bottom of the dialog, there are two buttons: 'Deregister' and 'Cancel'.

The deregistration takes a few moments.

The Center will go in Evaluation mode and the registration status in Unregistered.

The screenshot shows the Cisco Smart Software Licensing management interface. On the left is a navigation sidebar with categories like System, Data management, Sensors, Users, Events, API, License, LDAP Settings, PxGrid, SNORT, Integrations, and Extensions. The main content area is titled "Smart Software Licensing" and features a red notification banner at the top right stating "The license is Expired". Below this is a yellow warning box with an information icon and the text "You are currently running in Evaluation mode." The central part of the page contains instructions on how to register the product, including steps like ensuring correct licensing, internet access, logging into a Smart Account, and generating a registration token. A "REGISTER" button is provided. At the bottom, the "Smart Software Licensing Status" section displays current settings: Software Subscription Licensing is set to Advantage, Registration Status is Unregistered, License Authorization Status is expired as of Wednesday, December 16, 2020 11:43 AM, and Transport Settings are set to Direct.



CHAPTER 5

Offline licensing

This section describes how to:

- get a license in an offline environment.
- update a license registration in case the Center has run out of tokens.
- return to evaluation mode.
- [Get a license in an offline environment, on page 25](#)
- [Update license registration, on page 36](#)
- [Return to evaluation mode, on page 48](#)

Get a license in an offline environment

This section describes how to get a license in an offline environment.

You will:

1. Set Cisco Cyber Vision Center license (ESSENTIALS or ADVANTAGE).
2. [Perform pre-registration checks.](#)
3. [Register the Center.](#)
4. [Reserve a license.](#)
5. [Authorize the license.](#)

Set Cisco Cyber Vision Center license

Before starting with license registration, make sure that the license type set is relevant to the Center usage. You can choose between Essentials and Advantage. Note that changing this setting can cause additional costs.

To set the Cisco Cyber Vision Center's license:

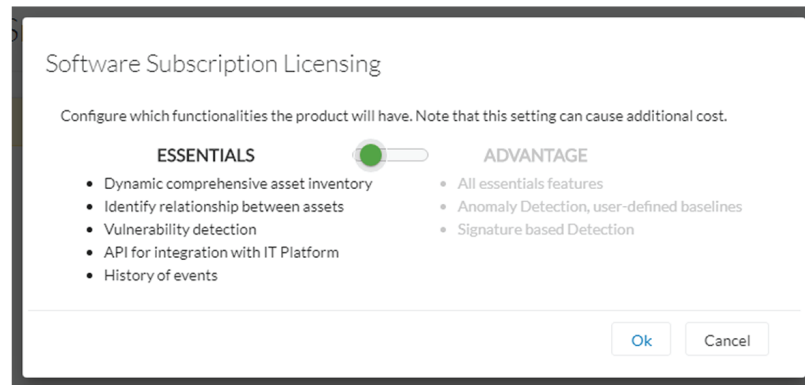
Procedure

- Step 1** Navigate to System Administration > License.

Step 2 Click "edit the Software Subscription Licensing".

Step 3 Toggle the button to select the license type (Essentials or Advantage).

Note By default, the license type is set to Advantage.

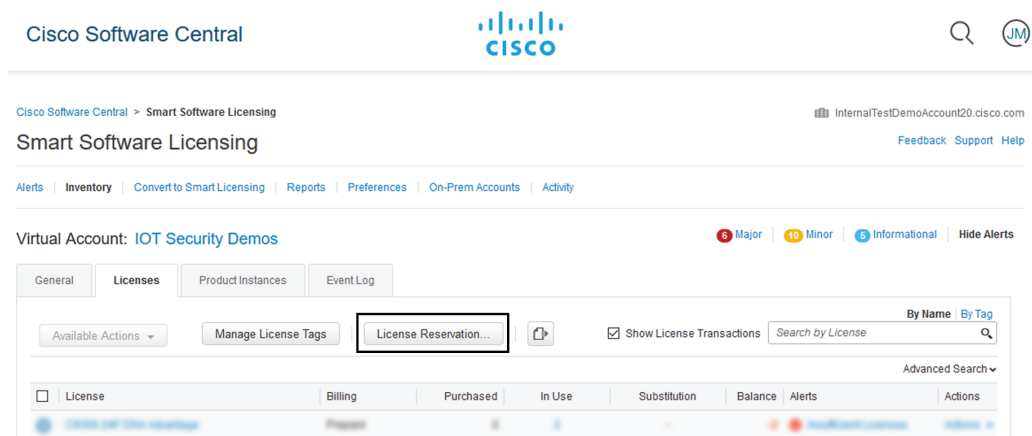


Perform pre-registration checks

Procedure

Step 1 Check the License Reservation:

The License Reservation feature is required to perform an offline licensing registration. Before proceeding with the following steps, check from the License menu in CSSM that the License reservation button is enabled. If it's not the case, open a case in cisco.com and provide a business justification.



Step 2 Check the number of tokens available:

A token equals a component in Cisco Cyber Vision. Before starting, take a moment to consider the number of tokens available in CSSM. This information will be useful in a later procedure to assign a number of token to the Center instance.

Example:

Herebelow, 14343/59000 tokens are in use. 44657 tokens are still available.

Cisco Software Central

Smart Software Licensing

Virtual Account: IOT Security Demos

6 Major | 10 Minor | 5 Informational | Hide Alerts

General Licenses Product Instances Event Log

Available Actions Manage License Tags License Reservation... Show License Transactions Search by License

License	Billing	Purchased	In Use	Substitution	Balance	Alerts	Actions
Cisco IOT Data Advantage	Prepaid	0	0	-	-	1	Actions
Cisco IOT Network Advantage	Prepaid	0	0	-	-	1	Actions
Cisco IOT Network Essentials	Prepaid	0	0	-	-	1	Actions
Cisco IOT Network Essentials	Prepaid	0	0	-	-	1	Actions
Cisco Cyber Vision Advantage	Prepaid	59000	14343 (9843 Reserved)	-	+ 44657	0	Actions
Cisco Cyber Vision Essentials	Prepaid	0	0	-	-	1	Actions

Register the Center

This section describes how to register a Center for an offline reservation in Cisco Cyber Vision. During this procedure, you will generate a Reservation Request code which will later be used in CSSM.

Procedure

Step 1 In Cisco Cyber Vision, click the button Register.

i You are currently running in Evaluation mode.

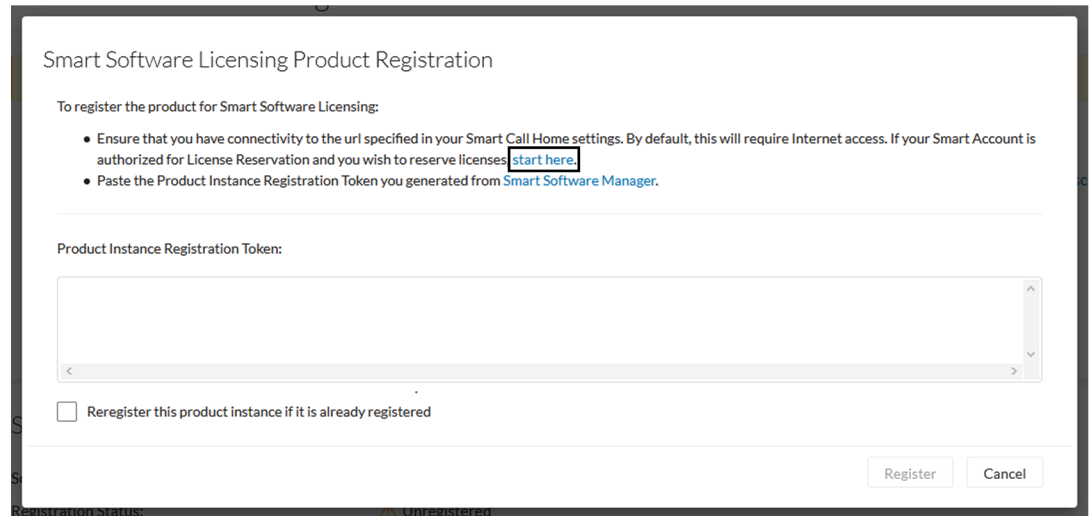
To register Cisco Cyber Vision with Cisco Smart Software Licensing:

- Ensure this product is set with the right Software Subscription Licensing (Essentials or Advantage). This might require you to [edit the Software Subscription Licensing](#).
- Ensure this product has access to the internet. This might require you to [edit the Smart Call Home Transport Settings](#).
- Log in to your Smart Account in [Smart Software Manager](#).
- Navigate to the Virtual Account containing the licenses to be used by this Product Instance.
- Generate a Product Instance Registration Token (this identifies your Smart Account) and copy or save it.

REGISTER

The Smart Software Licensing Product Registration window opens.

Step 2 Click the "Start here" link.



Smart Software Licensing Product Registration

To register the product for Smart Software Licensing:

- Ensure that you have connectivity to the url specified in your Smart Call Home settings. By default, this will require Internet access. If your Smart Account is authorized for License Reservation and you wish to reserve licenses [start here](#).
- Paste the Product Instance Registration Token you generated from Smart Software Manager.

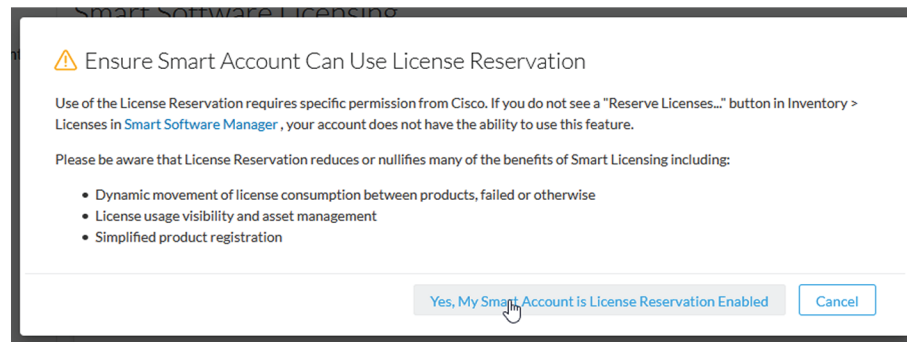
Product Instance Registration Token:

Reregister this product instance if it is already registered

Register Cancel

Registration Status: Unregistered

Step 3 If your Smart Account is authorized to generate tokens (i.e. the License Reservation button is active in CSSM), click Yes.



Smart Software Licensing

⚠ Ensure Smart Account Can Use License Reservation

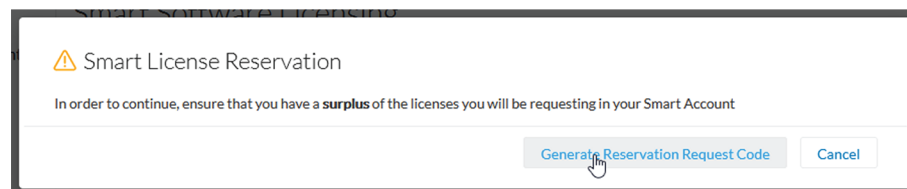
Use of the License Reservation requires specific permission from Cisco. If you do not see a "Reserve Licenses..." button in Inventory > Licenses in Smart Software Manager, your account does not have the ability to use this feature.

Please be aware that License Reservation reduces or nullifies many of the benefits of Smart Licensing including:

- Dynamic movement of license consumption between products, failed or otherwise
- License usage visibility and asset management
- Simplified product registration

Yes, My Smart Account is License Reservation Enabled Cancel

Step 4 Click Generate Reservation Request code.



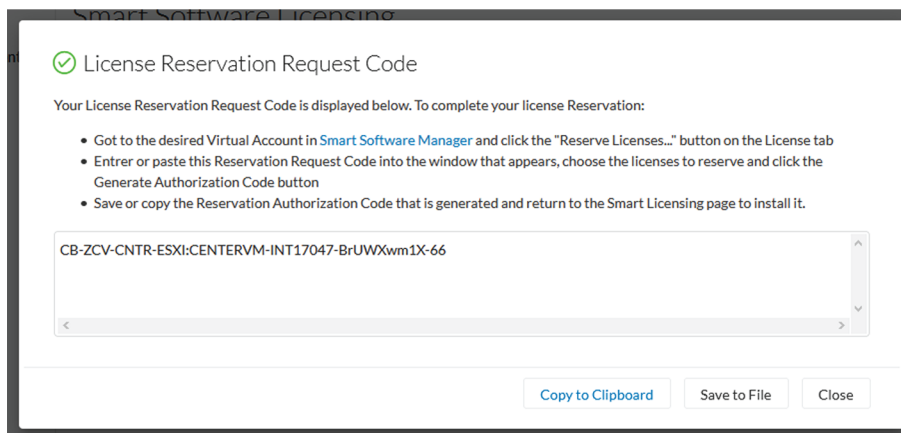
Smart Software Licensing

⚠ Smart License Reservation

In order to continue, ensure that you have a **surplus** of the licenses you will be requesting in your Smart Account

Generate Reservation Request Code Cancel

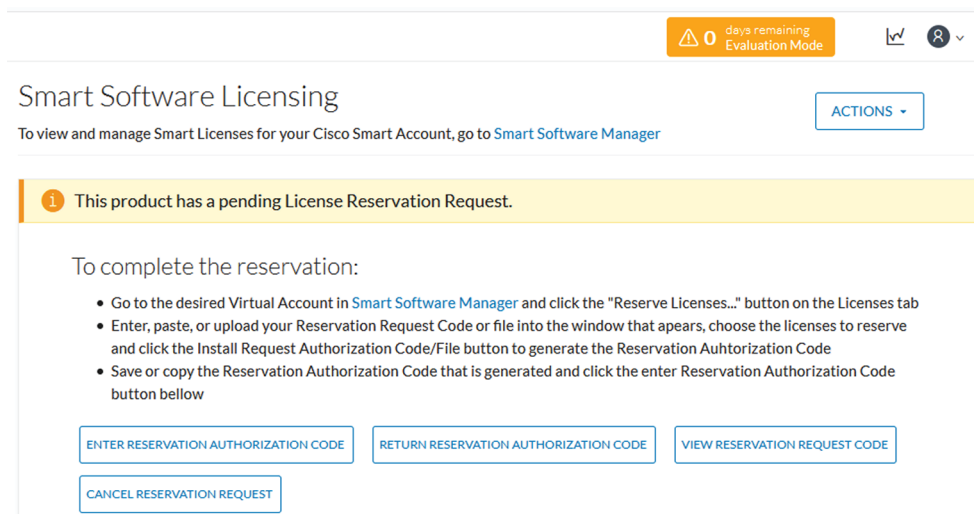
Your Reservation Request code is shown.



Step 5 Copy it and save it somewhere or click Save to file.

Step 6 Close the window.

The Cisco Cyber Vision License Reservation Request is in pending status and several new buttons are displayed that will allow you to perform the actions described in the following sections.



These buttons will allow you to perform the following actions:

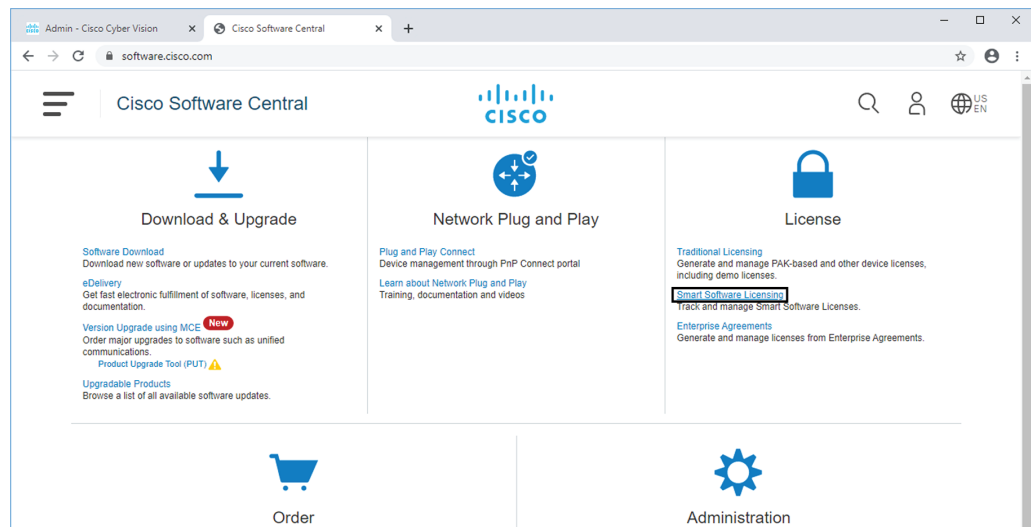
- Enter reservation authorization code: Finalize the reservation request with a code provided in the Smart Accounting software.
- Return reservation authorized code: Deregister a Center and restore tokens to the licensing balance.
- View reservation request code: View the request code in case you didn't copy/save it.
- Cancel reservation request: Cancel the license request.

Reserve a license

This section describes how to reserve a license in CSSM. To do so, you will use the Reservation Request code generated in Cisco Cyber Vision in order to reserve a license and assign it a number of tokens. As a result, you will get an authorization code to be entered in Cisco Cyber Vision in the following procedure.

Procedure

- Step 1** Access and log in to CSSM.
- Step 2** Under License, click Smart Software Licensing.



- Step 3** Click Inventory > Licenses.
- Step 4** Click the License Reservation button.

Cisco Software Central

Smart Software Licensing

Virtual Account: IOT Security Demos

License Reservation...

License	Billing	Purchased	In Use	Substitution	Balance	Alerts	Actions
Cisco IOT Data Advantage	Prepaid	0	0	-	-	1	Actions
Cisco IOT Network Advantage	Prepaid	0	0	-	-	1	Actions
Cisco IOT Network Essentials	Prepaid	0	0	-	-	1	Actions
Cisco IOT Network Pro	Prepaid	0	0	-	-	1	Actions
Cisco Cyber Vision Advantage	Prepaid	59000	14343 (9843 Reserved)	-	+ 44657	0	Actions
Cisco Cyber Vision Essentials	Prepaid	0	0	-	-	1	Actions

The Smart License Reservation wizard opens.

Smart License Reservation

STEP 1 Enter Request Code

STEP 2 Select Licenses

STEP 3 Review and confirm

STEP 4 Authorization Code

You can reserve licenses for product instances that cannot connect to the Internet for security reasons. You will begin by generating a Reservation Request Code from the product instance. To learn how to generate this code, see the configuration guide for the product being licensed.

Once you have generated the code:

- 1) Enter the Reservation Request Code below
- 2) Select the licenses to be reserved
- 3) Generate a Reservation Authorization Code
- 4) Enter the Reservation Authorization Code on the product instance to activate the features

Reservation Request Code:

CB-ZCV-CNTR-ESXI-CENTERVM-INT17047-BRUWxwm1X-68

Browse Upload

Cancel Next

Step 5 Paste or upload the Request Code previously retrieved from Cisco Cyber Vision and click Next.

Step 6 Reserve the number of tokens (i.e. components) for the Center instance and click Next.

Smart License Reservation

STEP 1 ✓ Enter Request Code | STEP 2 Select Licenses | STEP 3 Review and confirm | STEP 4 Authorization Code

Product Instance Details

Product Type: CCV
 UDI PID: CV-CNTR-ESXI
 UDI Serial Number: CENTERVM-INT17047

Licenses to Reserve

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Reserve a specific license

License	Expires	Purchased	Available	Reserve
Cisco Cyber Vision Advantage <small>Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.</small>	multiple terms	59000	49107	50

Cancel Next

Step 7 Review and confirm the reservation by clicking Generate Authorization Code.

Smart License Reservation

STEP 1 ✓ Enter Request Code | STEP 2 ✓ Select Licenses | STEP 3 Review and confirm | STEP 4 Authorization Code

Product Instance Details

Product Type: CCV
 UDI PID: CV-CNTR-ESXI
 UDI Serial Number: CENTERVM-INT17047

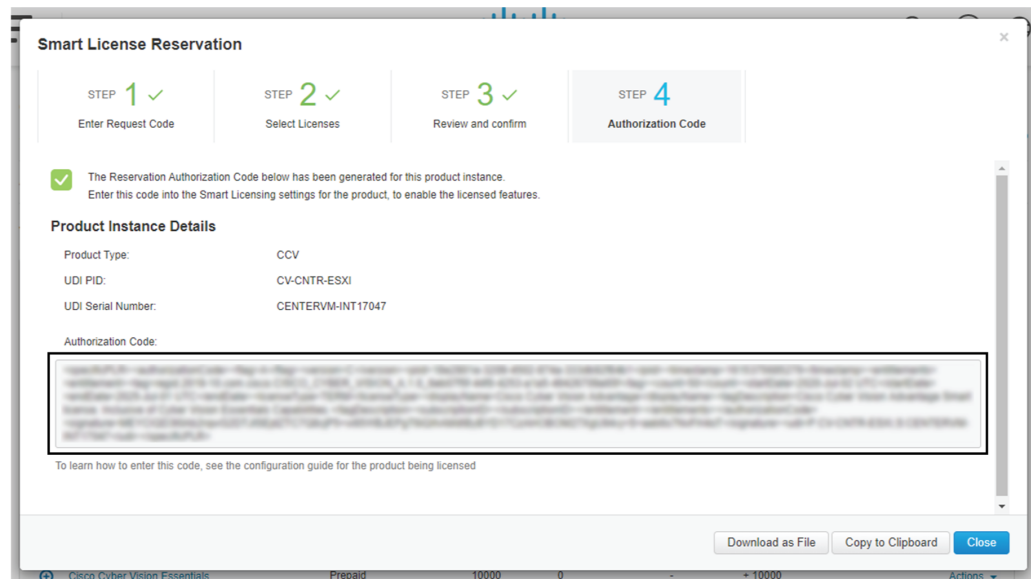
Licenses to Reserve

License	Expires	Quantity to Reserve
Cisco Cyber Vision Advantage <small>Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.</small>	-	50

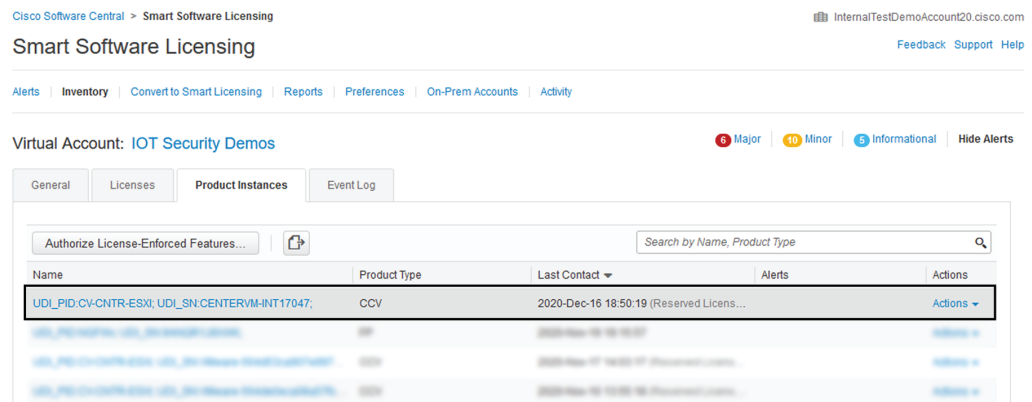
Cancel Back Generate Authorization Code

Step 8 Get your authorization code.

The authorization code should be copied to clipboard or save into a file.



In Inventory > Product Instances, you should see the instance you just created.



Authorize the license

This section describes how to enter the authorization code retrieved from CSSM in Cisco Cyber Vision. At the end of this procedure the installation of the license will be complete.

To authorize the license:

Procedure

Step 1 In Cisco Cyber Vision, click the button Enter Reservation Authorized Code.

Smart Software Licensing

To view and manage Smart Licenses for your Cisco Smart Account, go to [Smart Software Manager](#)

i This product has a pending License Reservation Request.

To complete the reservation:

- Go to the desired Virtual Account in [Smart Software Manager](#) and click the "Reserve Licenses..." button on the Licenses tab
- Enter, paste, or upload your Reservation Request Code or file into the window that appears, choose the licenses to reserve and click the Install Request Authorization Code/File button to generate the Reservation Authorization Code
- Save or copy the Reservation Authorization Code that is generated and click the enter Reservation Authorization Code button below

Smart Software Licensing Status

Software Subscription Licensing: 👉 Advantage [VIEW / EDIT](#)

Registration Status: ⚠️ License Reservation Pending

License Authorization Status: ✅ No Licenses in Use (Wednesday, December 16, 2020 11:43 AM)

The Enter Reservation Authorized Code window opens.



- Step 2** Paste the code or upload the file previously retrieved in CSSM.
- Step 3** Click Install Authorization Code/File.

Enter Reservation Authorization Code

To complete the reservation, enter or upload a file containing your Reservation Authorization Code below.

Reservation Authorization Code:

The Cisco Cyber Vision registration status switches to registered and the license authorization status to authorized.

Smart Software Licensing

To view and manage Smart Licenses for your Cisco Smart Account, go to [Smart Software Manager](#)

ACTIONS ▾

Smart Software Licensing Status

Software Subscription Licensing: Ⓢ Advantage

Registration Status: ✔ Registered - License Reservation (Thursday, December 17, 2020 3:27 PM)

License Authorization Status: ✔ Authorized - Reserved (Thursday, December 17, 2020 3:27 PM)

Smart License Usage

UPDATE RESERVATION
RETURN RESERVED LICENSES

License (Version)	Description	In		
		Reserved	Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	50	31	✔ Authorized

The installation of the license is complete and you can continue using Cisco Cyber Vision.

Update license registration

Cisco Cyber Vision Smart Licensing includes a limited number of tokens which are distributed among the different product instances of your industrial platform. A token being the equivalent of a component in Cisco Cyber Vision, it can happen that one of your product instance run out of available tokens. In this case, the message "out of compliance" appears in Cisco Cyber Vision. In an offline licensing environment, you need to manually update the license reservation by extending the number of tokens in CSSM. You may have to perform this action because you want to change the number of tokens attributed to a Center or because you need to add a license for an IDS sensor to use Snort Subscriber rules. If you don't perform this action within 90 days, Cisco Cyber Vision will fall back into evaluation mode. Updating an offline license may lead to additional costs.

In the following example, we will update a license for an IDS sensor.

The license that is out of compliance and needs to be updated appears in Cisco Cyber Vision's License administration page under Smart License Usage.

The screenshot shows the Cisco Smart Software Licensing (SSL) interface. At the top right, a red notification banner states "The license is Out of compliance". The main content area is titled "Smart Software Licensing" and includes a sub-section "Smart License Usage" with two buttons: "UPDATE RESERVATION" and "RETURN RESERVED LICENSES". Below these buttons is a table showing license usage details.

License (Version)	Description	Reserved	In Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	50	4	Authorized
CISCO_CYBER_VISION_IDS_IC3000		0	1	Out of Compliance

Update the license reservation in CSSM

This procedure describes how to manually update the license in an offline environment. You may have to perform this action because you want to change the number of tokens attributed to a Center or because you need to add a license for an IDS sensor (whenever you want to use Snort Subscriber rules). In this case, the message "the license is out of compliance" is displayed on the top right corner of Cisco Cyber Vision. If you don't perform this action within 90 days, Cisco Cyber Vision will fall back into evaluation mode. Updating an offline license may lead to additional costs.

In the following example, we will update a license for an IDS sensor.

Procedure

Step 1

In Cisco Cyber Vision, navigate to Admin > License.

The license that is out of compliance and needs to be updated appears under Smart License Usage.

The license is Out of compliance

Smart Software Licensing

To view and manage Smart Licenses for your Cisco Smart Account, go to [Smart Software Manager](#)

Smart Software Licensing Status

Software Subscription Licensing: ⚡ Advantage
 License mode: Pre-paid Term Subscription
 Registration Status: ✔ Registered - License Reservation (Wednesday, August 10, 2022 11:51 AM)
 License Authorization Status: ✘ Out of Compliance (Wednesday, August 10, 2022 11:51 AM)

Smart License Usage

[UPDATE RESERVATION](#) [RETURN RESERVED LICENSES](#)

License (Version)	Description	Reserved	In Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	50	4	✔ Authorized
CISCO_CYBER_VISION_IDS_IC3000		0	1	✘ Out of Compliance

To update the license, you must retrieve the Center's serial number. You will find it accessing the System statistics page.

Step 2

Access the System statistics page using the button on the top right corner and copy the Center's serial number.

System statistics Last 2 hours Center Sensors

VMWARE-42 0F 63 7E 3D A2 67 55-98 30 6B 53 C6 B2 D5 19

- Version: 4.1.2 (build 202207190950)
- Uptime: 23d 18h 19m 27s
- System date (UTC): Friday, August 12, 2022 8:24 AM

[GENERATE DIAGNOSTIC](#)

Step 3

In CSSM, navigate to Inventory > Product Instances.

Step 4

In the search field, paste the Center serial number.

Cisco Software Central > Smart Software Licensing

InternalTestDemoAccount20.cisco.com

Smart Software Licensing


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

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

Virtual Account: IOT Security Demos

26 Major | 37 Minor | 11 Informational | [Hide Alerts](#)

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


Authorize License-Enforced Features... 

Name	Product Type	Last Contact	Alerts
BehrFMC.behrenslab.com	FP	2021-Mar-28 13:11:09	
center	CCV	2021-May-04 16:39:46	
center	CCV	2020-Aug-29 22:54:15	
center	CCV	2020-Jun-04 16:55:25	
center	CCV	2020-Jul-31 05:51:53	

Step 5 Remove all whitespaces from the serial number and search.

Virtual Account: IOT Security Demos 26 Major | 37 Minor | 11 Informational | [Hide Alerts](#)

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


Authorize License-Enforced Features... 

Name	Product Type	Last Contact	Alerts
BehrFMC.behrenslab.com	FP	2021-Mar-28 13:11:09	
center	CCV	2021-May-04 16:39:46	
center	CCV	2020-Aug-29 22:54:15	
center	CCV	2020-Jun-04 16:55:25	
center	CCV	2020-Jul-31 05:51:53	

Your Center instance appears.

Virtual Account: IOT Security Demos 26 Major | 37 Minor | 11 Informational | [Hide Alerts](#)

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

Authorize License-Enforced Features... 

Name	Product Type	Last Contact	Alerts
UDI_PID:CV-CNTR-ESXi; UDI_SN:VMware-420f637e3d...	CCV	2022-Aug-10 09:52:17 (Reserved Licenses)	

Showing 1 Record

Step 6 Click the Center instance's link.

Virtual Account: IOT Security Demos 26 Major | 37 Minor | 11 Informational | Hide Alerts

General Licenses **Product Instances** Event Log

Authorize License-Enforced Features... VMware-420f637e3da26755-98306b53c6b2d519

Name	Product Type	Last Contact	Alerts
UDI_PID:CV-CNTR-ESXI; UDI_SN:VMware-420f637e3d...	CCV	2022-Aug-10 09:52:17 (Reserved Licenses)	

UDI_PID:CV-CNTR-ESXI;
UDI_SN:VMware-420f637e3da26755-98306b53c6b2d519;

Showing 1 Record

The Center instance details window pops up.

Step 7

Click **Update reservation**.

UDI_PID:CV-CNTR-ESXI; UDI_SN:VMware-420f637e3da26755-98306b53c6b2d519;

Overview **Event Log**

Description
Cisco Cyber Vision

General

Name: UDI_PID:CV-CNTR-ESXI; UDI_SN:VMware-420f637e3da26755-98306b53c6b2d519;
 Product: Cisco Cyber Vision
 Host Identifier: -
 MAC Address: -
 PID: CV-CNTR-ESXI
 Serial Number: VMware-420f637e3da26755-98306b53c6b2d519
 UUID: -
 Virtual Account: IOT Security Demos
 Registration Date: 2022-Aug-10 09:52:17
 Last Contact: 2022-Aug-10 09:52:17 (Reserved Licenses) - [Download Reservation Authorization Code](#)

License Usage These licenses are reserved on this product instance. [Update reservation](#)

License	Billing	Expires	Required
Cisco Cyber Vision Advantage	Prepaid	2025-Jul-01	50

Showing 1 Record

Actions ▾

The Update License Reservation wizard pops up.

Step 8

In step 1, select **Reserve a specific license**.

Step 9

Reserve the number of tokens required for the corresponding license.

In our example, we reserve one token for the Cisco IC3000 license.

Update License Reservation

STEP 1

Select Licenses

STEP 2

Review and Confirm

STEP 3

Authorization Code

Product Type: CCV
UDI PID: CV-CNTR-ESXI
UDI Serial Number: VMware-420f637e3da26755-98306b53c6b2d519

Licenses to Reserve

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Reserve a specific license

License	Expires	Purchased	Available	Reserve
Cisco Cyber Vision Advantage <small>Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.</small>	multiple terms	45000	32856	50
Cisco Cyber Vision Essentials <small>Cisco Cyber Vision Essentials Smart license</small>	2023-Apr-03	10000	10000	0
Cyber Vision Catalyst 9K IDS <small>Cyber Vision Intrusion Detection License for Catalyst 9K Series. Requires Advantage License.</small>	2022-Aug-10	10	9	0
Cyber Vision Sensor Intrusion Detection License for IC3000 <small>Cyber Vision Sensor Intrusion Detection License for IC3000 Hardware-Sensor. Requires Advantage License.</small>	2023-Apr-03	100	68	1

Step 10

In step 2, check license reservations and click **Generate Authorization Code**.

Update License Reservation

STEP 1 ✓

Select Licenses

STEP 2

Review and Confirm

STEP 3

Authorization Code

Product Instance Details

Product Type: CCV
UDI PID: CV-CNTR-ESXI
UDI Serial Number: VMware-420f637e3da26755-98306b53c6b2d519

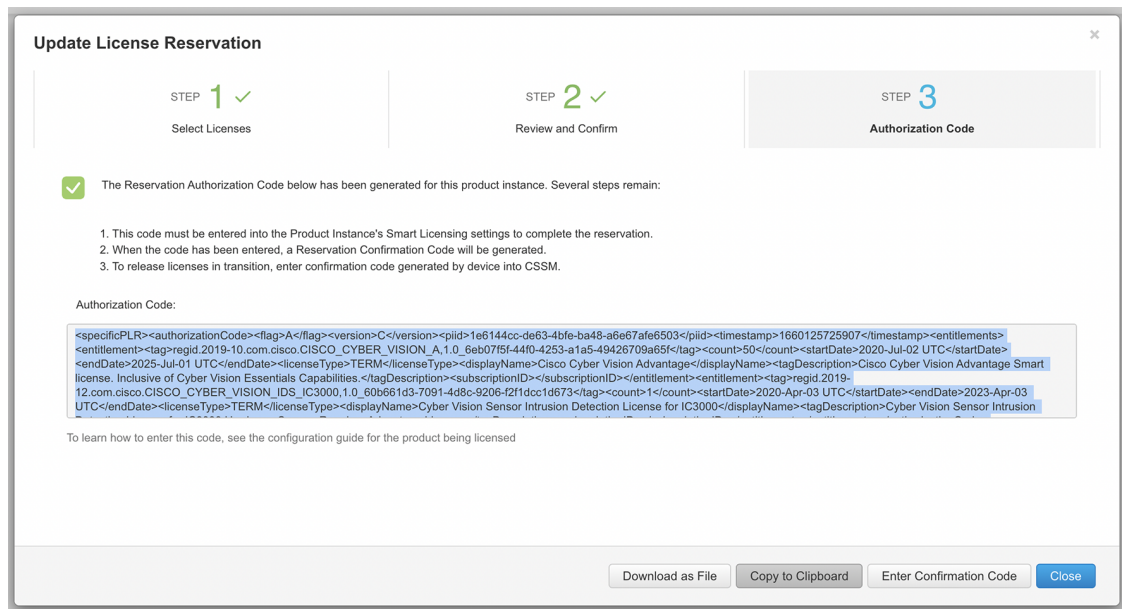
Licenses to Reserve

License	Expires	Quantity to Reserve
Cisco Cyber Vision Advantage <small>Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.</small>	multiple terms	50
Cyber Vision Sensor Intrusion Detection License for IC3000 <small>Cyber Vision Sensor Intrusion Detection License for IC3000 Hardware-Sensor. Requires Advantage License.</small>	2023-Apr-03	1

Step 11

In step 3, copy or save as a file the authorization code.

Do NOT close this window as this will be needed later to enter the Confirmation Code.



What to do next

Authorize the license reservation update in Cisco Cyber Vision.

Authorize the license reservation update in Cisco Cyber Vision

Procedure

Step 1 In Cisco Cyber Vision's Admin License page, click **Update Reservation**.

The screenshot shows the Cisco Smart Software Licensing interface. The left sidebar contains navigation options like System, Data Management, Network Organization, Sensors, Active Discovery, Users, Events, API, License, LDAP Settings, Snort, Risk score, Integrations, and Extensions. The main content area is titled 'Smart Software Licensing' and includes a status section and a 'Smart License Usage' table. The 'UPDATE RESERVATION' button is highlighted with a red box.

Smart Software Licensing Status

- Software Subscription Licensing: Advantage
- License mode: Pre-paid Term Subscription
- Registration Status: Registered - License Reservation (Wednesday, August 10, 2022 11:51 AM)
- License Authorization Status: Out of Compliance (Wednesday, August 10, 2022 11:51 AM)

Smart License Usage

License (Version)	Description	Reserved	In Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	50	4	Authorized
CISCO_CYBER_VISION_IDS_IC3000		0	1	Out of Compliance

The Enter Reservation Authorization Code window pops up.

Step 2 Paste the code or upload the file previously retrieved in CSSM.

The dialog box is titled 'Enter Reservation Authorization Code'. It contains the following text:

To complete the reservation, enter or upload a file containing your Reservation Authorization Code below.

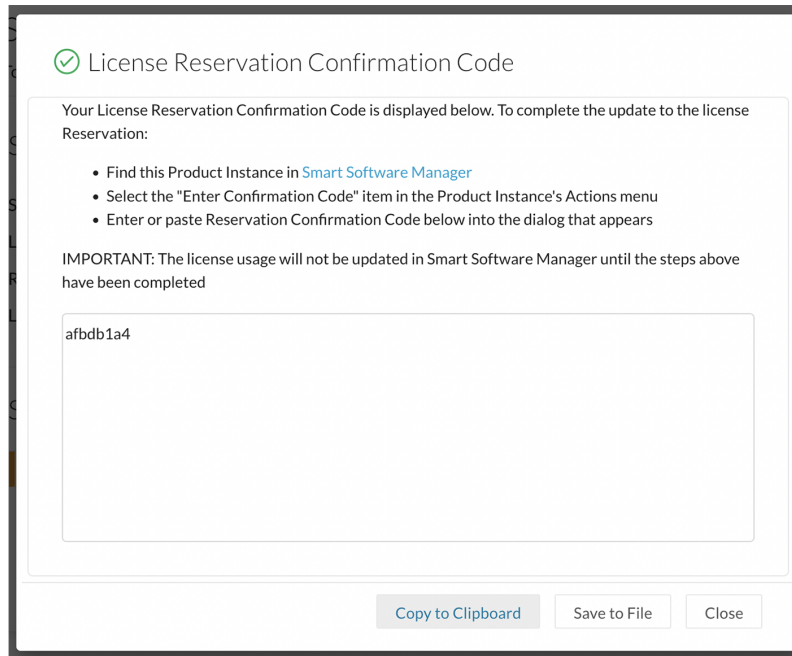
Reservation Authorization Code:

```
<endDate>2023-Apr-03 UTC</endDate><licenseType>TERM</licenseType><displayName>Cyber Vision Sensor Intrusion Detection License for IC3000</displayName><tagDescription>Cyber Vision Sensor Intrusion Detection License for IC3000 Hardware-Sensor. Requires Advantage License.</tagDescription><subscriptionID></subscriptionID></entitlement></entitlements></authorizationCode><signature>MEYCIQDtkRZPOnh+zmeQnZVeOWiOPa2OkI3r5cZ7dgCXqfbb7wlhAL2TzROMYlv65eMJmII8A9mcVAE7hdsUbxU/1AMuloNa</signature><uid>P:CV:CNTR-ESXIS:VMware-420f637e3da26755-98306b53c6b2d519</uid></specificPLR>
```

Buttons: Browse, Install Authorization Code/File, Cancel

Step 3 Click **Install Authorization Code/File**.

The License Reservation Confirmation Code window appears.



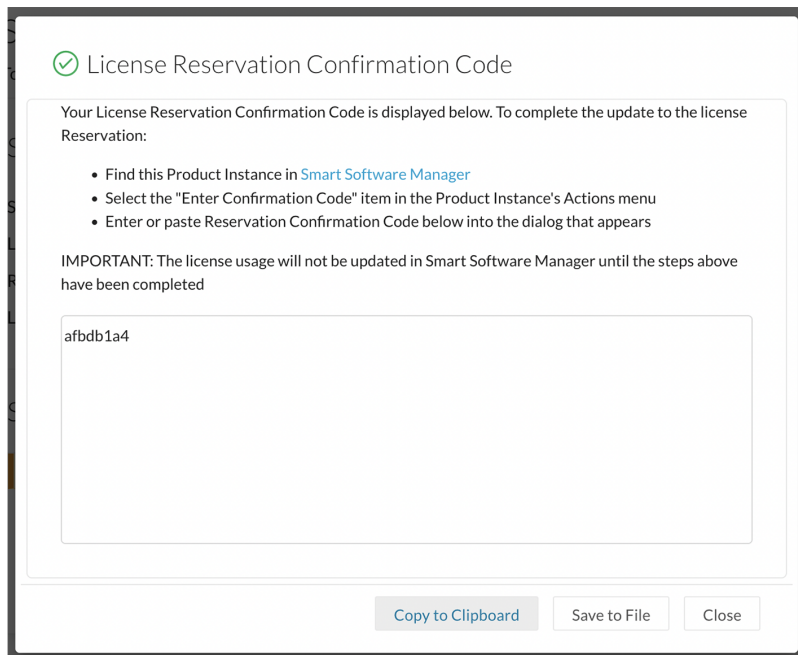
What to do next

Confirm the license reservation update.

Confirm the license reservation update

Procedure


- Step 1** Copy the License Reservation Confirmation Code or save it to a file, then close the window.



A message indicating that the license reservation has been updated appears in the Cisco Cyber Vision License page.

Note You can use the **View Confirmation Code** button if needed.


Smart License Usage

 You have updated the license reservation for this product instance.

This process requires entering a confirmation code into [Smart Software Manager](#). The license usage will not be updated in Smart Software Manager until you do this.

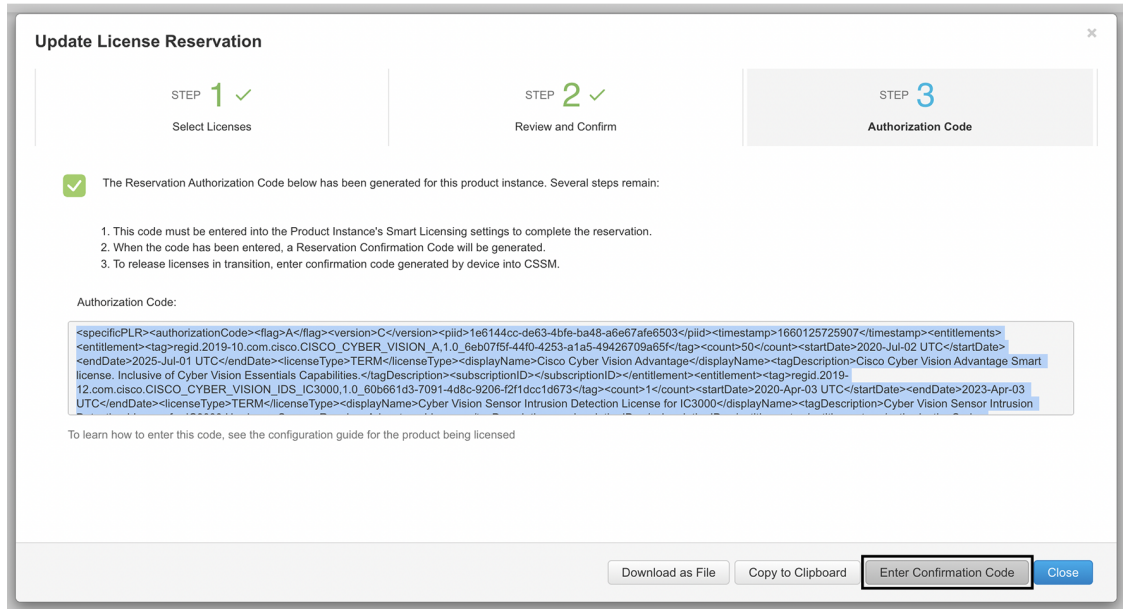
[Code Has Been Entered](#) [View Confirmation Code](#)

[UPDATE RESERVATION](#) [RETURN RESERVED LICENSES](#)

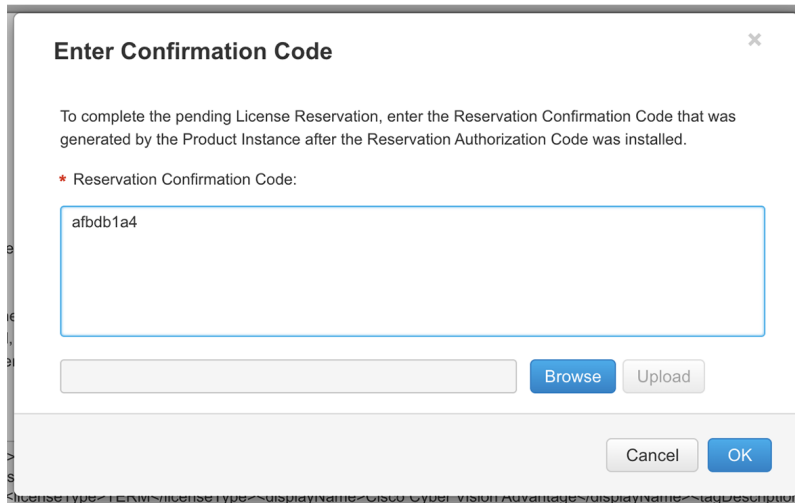
License (Version)	Description	Reserved	In Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license, Inclusive of Cyber Vision Essentials Capabilities.	100	0	 No Licenses in Use

Step 2 In CSSM, click **Enter Confirmation Code**.

Confirm the license reservation update



Step 3 Paste the code or upload the file retrieved in Cisco Cyber Vision and click **OK**.



In Cisco Cyber Vision, the license status switched to authorized.

License mode: Pre-paid Term Subscription

Registration Status: ✔ Registered - License Reservation (Wednesday, August 10, 2022 12:02 PM)

License Authorization Status: ✔ Authorized - Reserved (Wednesday, August 10, 2022 12:02 PM)

Smart License Usage

⚠ You have updated the license reservation for this product instance.

This process requires entering a confirmation code into [Smart Software Manager](#). The license usage will not be updated in Smart Software Manager until you do this.

Code Has Been Entered View Confirmation Code

UPDATE RESERVATION RETURN RESERVED LICENSES

License (Version)	Description	Reserved	In Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	50	4	✔ Authorized
Cyber Vision Sensor Intrusion Detection License for IC3000	Cyber Vision Sensor Intrusion Detection License for IC3000 Hardware-Sensor. Requires Advantage License.	1	1	✔ Authorized

Step 4 Click **Code Has Been Entered** to clear the warning message.

The license token has been successfully updated and you can continue using Cisco Cyber Vision.

Software Subscription Licensing: 💰 Advantage

License mode: Pre-paid Term Subscription

Registration Status: ✔ Registered - License Reservation (Wednesday, August 10, 2022 12:02 PM)

License Authorization Status: ✔ Authorized - Reserved (Wednesday, August 10, 2022 12:02 PM)

Smart License Usage

UPDATE RESERVATION RETURN RESERVED LICENSES

License (Version)	Description	Reserved	In Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	50	4	✔ Authorized
Cyber Vision Sensor Intrusion Detection License for IC3000	Cyber Vision Sensor Intrusion Detection License for IC3000 Hardware-Sensor. Requires Advantage License.	1	1	✔ Authorized

Return to evaluation mode

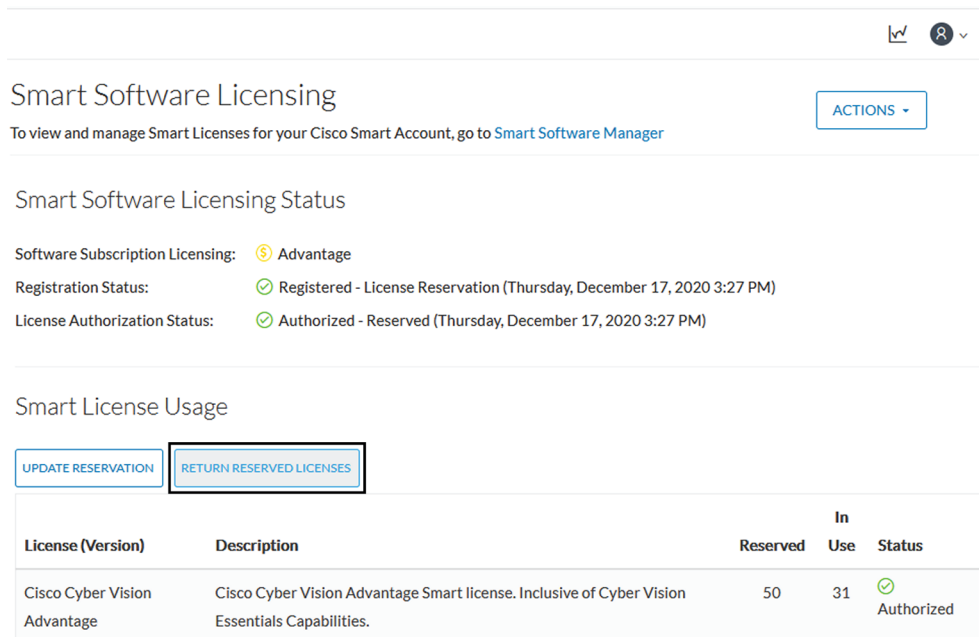
This section describes how to return to evaluation mode. To do so, you need first to deregister the Center from the offline reservation in Cisco Cyber Vision and then, to restore tokens in CSSM. Once back to evaluation mode, the 90-day countdown resumes where it has stopped. If the countdown has reached zero, access to Cisco Cyber Vision user interface will be prevented.

To deregister the Center:

Deregister the Center

Procedure

Step 1 In Cisco Cyber Vision, click the button Return Reserved Licenses.



Smart Software Licensing

To view and manage Smart Licenses for your Cisco Smart Account, go to [Smart Software Manager](#)

Smart Software Licensing Status

Software Subscription Licensing: \$ Advantage

Registration Status: ✔ Registered - License Reservation (Thursday, December 17, 2020 3:27 PM)

License Authorization Status: ✔ Authorized - Reserved (Thursday, December 17, 2020 3:27 PM)

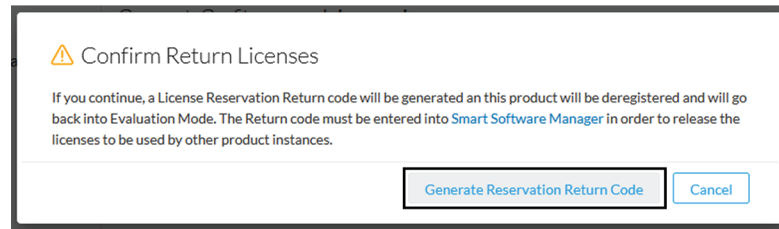
Smart License Usage

UPDATE RESERVATION RETURN RESERVED LICENSES

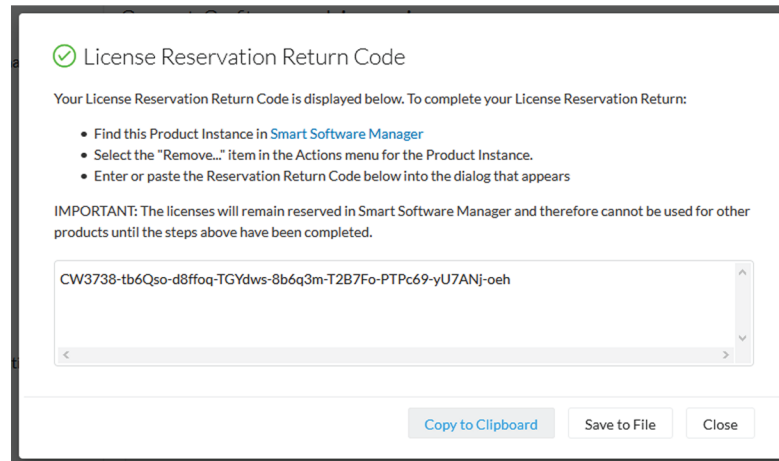
License (Version)	Description	In		
		Reserved	Use	Status
Cisco Cyber Vision Advantage	Cisco Cyber Vision Advantage Smart license. Inclusive of Cyber Vision Essentials Capabilities.	50	31	✔ Authorized

The Confirm Return Licenses window opens.

Step 2 Confirm the deregistration clicking the button Generate Reservation Return Code.



The Reservation Return Code is displayed.



Step 3 As you will need this code later in the procedure, copy it somewhere or click Save to file. Cisco Cyber Vision switches to Evaluation mode.

⊗ The license is Expired
📈
👤

Smart Software Licensing

i You are currently running in Evaluation mode.

To register Cisco Cyber Vision with Cisco Smart Software Licensing:

- Ensure this product is set with the right Software Subscription Licensing (Essentials or Advantage). This might require you to [edit the Software Subscription Licensing](#).
- Ensure this product has access to the internet. This might require you to [edit the Smart Call Home Transport Settings](#).
- Log in to your Smart Account in [Smart Software Manager](#).
- Navigate to the Virtual Account containing the licenses to be used by this Product Instance.
- Generate a Product Instance Registration Token (this identifies your Smart Account) and copy or save it.

[REGISTER](#)

Smart Software Licensing Status

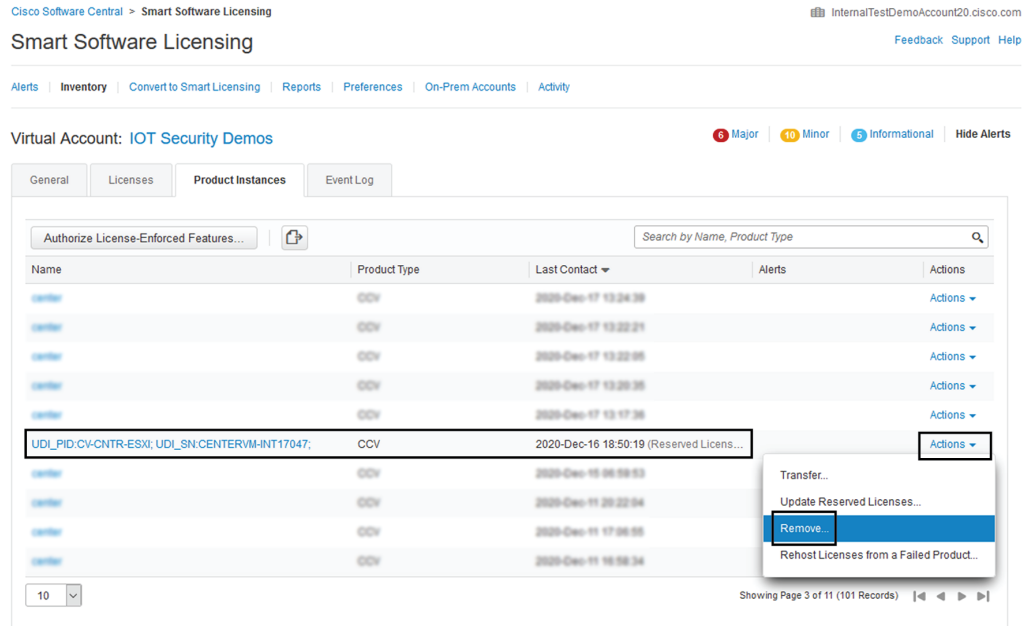
Software Subscription Licensing:	📄 Advantage VIEW / EDIT
Registration Status:	⚠️ Unregistered (Thursday, December 17, 2020 3:27 PM)
License Authorization Status:	⚠️
Transport Settings:	Direct VIEW / EDIT

However, since tokens are still in use in the Cisco Smart Accounting balance, you must proceed with the following steps to restore tokens.

Restore tokens in CSSM

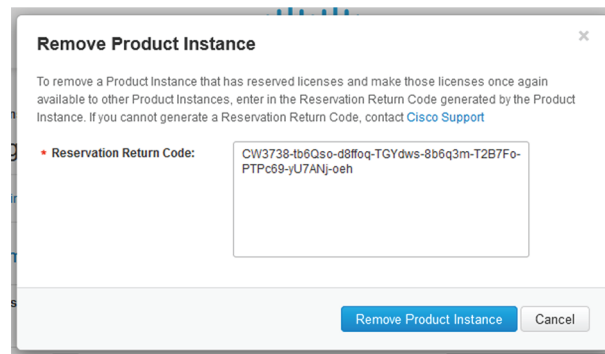
Procedure

- Step 1** In Cisco Software Central, navigate to Inventory > Product Instances.
- Step 2** Search for your Center instance in the list and click Actions > Remove.



The Remove Product Instance pop up opens with the Reservation Return Code.

Step 3 Paste the Reservation Return Code previously retrieved and click Remove Product Instance.



The Center instance is no longer in the list and tokens are restored.



CHAPTER 6

Useful commands

- [Useful commands, on page 53](#)

Useful commands

To query the number of tokens (i.e. components) in use in Cisco Cyber Vision when in evaluation mode, use the following command:

```
smartagentctl --get-license-summary
```

You will get the following response:

```
root@center:~# smartagentctl --get-license-summary
{"reservationEnableFlag":false,"postPaidUsageSubscription":false,"registrationDetails":{"registrationExpireTime":"1970-01-01T00:00:00Z","registrationFailed":false,"registrationLastRenewTime":"1970-01-01T00:00:00Z","registrationNextRenewTime":"1970-01-01T00:00:00Z","registrationStatus":"UNREGISTERED","reservationStartTime":"1970-01-01T00:00:00Z"},"authorizationDetails":{"authorizationExpired":false,"authorizationExpiredAtTime":"1970-01-01T00:00:00Z","authorizationFailMessage":"Communication not started.","authorizationFailed":false,"authorizationLastTime":"2021-01-08T11:52:33Z","authorizationNextTime":"1970-01-01T00:00:00Z","authorizationStatus":"EVAL MODE","outOfComplianceStartTime":"1970-01-01T00:00:00Z","evaluationExpiredAtTime":"1970-01-01T00:00:00Z","evaluationPeriodRemaining":55,"inEvaluation":true,"inUtilityMode":false,"reservationType":"SmartAgentReservationTypeNone"},"entitlementDetails":{"licenseUsage":[{"licenseUsageStatus":"EVAL MODE","requestedCount":105,"reservedCount":0,"entitlementTag":"regid.2019-10.com.cisco.CISCO_CYBER_VISION_A,1.0_6eb07f5f-44f0-4253-aa5-49426709a65f"}]}}
root@center:~#
```

The number of tokens is displayed in the mention:

```
licenseUsageStatus":"EVAL MODE",
```




CHAPTER 7

External resource

- [External Resource for direct connection, on page 55](#)

External Resource for direct connection

Herebelow is the URL called by the Cisco Cyber Vision Center in case you need to authorize it, for example in a firewall.

- <https://tools.cisco.com/its/service/odcce/services/DDCEService>

