



Cisco Smart Licensing

Cisco Smart Licensing is a unified license management system that manages software licenses across Cisco products. If you have a Cisco Smart Licensing account, you can associate the Cisco Smart Licensing token with a Secure Workload license.

Secure Workload Licenses

- **Tetration workload protection**—For workload protection. License information is available in the **Total workload license usage** table on the **License Usage Information** page.
- **Tetration endpoint visibility**—For workload visibility in Secure Workload. Number of workloads and licenses consumed is available in the **Total endpoint license usage** table on the **License Usage Information** page.
- **Secure Workload PLR**—Purchase the PLR license to use the license reservation PLR mode in Secure Workload.

Registering for Secure Workload Smart Licensing

Table 1: Registering for Secure Workload Smart Licensing

New Users	Existing Users
<ol style="list-style-type: none"> 1. Create a Smart Account on Cisco Software Central and purchase the Secure Workload entitlements. For more information, see Cisco Licensing. 2. Go to Smart Software Manager and create a token to register Secure Workload cluster. 3. From Secure Workload, connect to the Cisco Smart Software Manager (CSSM) portal to register the cluster and sync all the licenses and compliance information, and you can also reserve specific licenses. 	<ol style="list-style-type: none"> 1. The purchased Secure Workload entitlements will be saved in the Cisco Smart Software Manager under your Smart Account. To manage, go to Smart Software Manager. 2. Upgrade to Secure Workload release 3.8. 3. Go to Smart Software Manager and create a token to register Secure Workload cluster. 4. From your latest Secure Workload version, connect to the Cisco Smart Software Manager (CSSM) portal to register the cluster and sync all the licenses and compliance information, and you can also reserve specific licenses.

For more information about creating a smart account, see:

- [How to Create a Smart Account](#)
- [How to Create a Smart Account - Video](#)

Licensing options available in Secure Workload:

- **Connected mode**—The entitlement and compliance information is communicated by Secure Workload with the Smart Software Manager on a periodic basis. If you make changes in the Smart Software Manager, you can refresh the authorization on Secure Workload so the changes immediately take effect. You also can wait for Secure Workload to communicate as scheduled. See [Secure Workload Smart License Registration—CSSM Portal, on page 2](#).
- **Air-gapped mode**
 - Smart Software Manager On-Prem—The Smart Software Manager On-Prem allows you to schedule synchronization or manually synchronize Smart License authorization with the Smart Software Manager. To register Secure Workload cluster using Smart Software Manager On-Prem, see [Secure Workload Smart License Registration—CSSM On-Premises, on page 9](#).
 - Specific license reservation—Use license reservation method to reserve licenses from your virtual smart account without accessing the Smart Software Manager or using Smart Software Manager On-Prem. See [License Reservation, on page 5](#).



Note

- Smart licensing is applicable to Secure Workload on-premises version and is not applicable to the SaaS version.
 - Smart licensing feature requires Secure Workload cluster running on version 3.8 and later.
 - For the data backup and restore feature, smart licenses are required for the primary (active) cluster but not for the standby cluster until it becomes active.
 - For Federation clusters, leaders and followers must be individually registered using smart licenses, however, leader will not consume any endpoint or workload licenses.
 - The Secure Workload cluster enters non-compliant state when the licenses are being overutilized or the licenses have expired. It is recommended that you take action immediately to restore the cluster in compliant state. In release 3.8, no features are affected due to the non-compliant state.
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- [Secure Workload Smart License Registration—CSSM Portal, on page 2](#)
 - [License Reservation, on page 5](#)
 - [Secure Workload Smart License Registration—CSSM On-Premises, on page 9](#)
 - [Synchronize Smart Licenses, on page 10](#)

Secure Workload Smart License Registration—CSSM Portal

Before you begin

Ensure that:

- Internet connectivity is available to register the Secure Workload cluster with the CSSM portal.

- Smart Licensing account contains the required licenses you need.

Procedure

- Step 1** Go to the Cisco Smart Software Manager (CSSM) portal and perform the following actions to generate a token for the virtual account to which you want to register the Secure Workload cluster.
- Login to the CSSM portal.
 - Choose the correct virtual account and navigate to **Smart Software Licensing > General** and click **New Token**. Follow the onscreen instructions to create a token.

Figure 1: Create a New Token on CSSM Portal

The screenshot shows the Cisco Smart Software Licensing portal interface. The breadcrumb trail is "Cisco Software Central > Smart Software Licensing". The page title is "Smart Software Licensing" with links for "SL Product Details", "Support", and "Help". A navigation bar includes "Alerts", "Inventory", "Convert to Smart Licensing", "Reports", "Preferences", "On-Prem Accounts", and "Activity". Below this, it shows the "Virtual Account" section with tabs for "General", "Licenses", "Product Instances", and "Event Log". The "General" tab is active, displaying "Virtual Account" details (Description, Default Virtual Account: No) and "Product Instance Registration Tokens". A table lists existing tokens with columns for Token, Expiration Date, Uses, Export-Controlled, Description, Created By, and Actions. A "New Token..." button is highlighted with a green box above the table. A note at the bottom states: "The token will be expired when either the expiration or the maximum uses is reached".

Token	Expiration Date	Uses	Export-Controlled	Description	Created By	Actions
YToNzM4ZTQlODg4...	2024-Jan-12 08:20:30 (in 276 days)		Allowed			Actions
YzhkZmJmM2YlMzI3...	2023-Dec-09 05:02:06 (in 242 da...)		Allowed			Actions

- Copy the generated token.

Step 2 In Secure Workload, navigate to **Manage > Service Settings > Licenses**, and then click **Register**.

Step 3 Under the **Smart Licenses** tab, enter the generated token from the CSSM portal.

Figure 2: Secure Workload Smart License Registration Page

Step 4 (Optional) Enable **Force Register** to continue with the registration even if the cluster UUID is already registered with CSSM.

Step 5 Click **Register**.

The registration of Secure Workload with the CSSM portal is initiated. To view the updated status of the registration, refresh the **License Usage Information** page.

Secure Workload Smart License De-Registration

Procedure

Step 1 On the **License Usage Information** page, click **Deregister**.

Step 2 To confirm, click **Yes**.

After you refresh the **License Usage Information** page, the **Licensing Status** field displays the licensing status as **Not Registered** and the cluster enters the evaluation period.

License Reservation

The License Reservation feature is used to deploy Smart Licensing in an air-gapped network. Before you begin, ensure that the required licenses for Secure Workload are available in your smart account. To know the count of available licenses in your account, go to [CSSM Smart software licensing portal](#) and click **Inventory > Licenses**.

Procedure

- Step 1** On the Secure Workload UI, navigate to **Manage > Service Settings > Licenses**. The **License Usage Information** page is displayed.
- Step 2** Click **Register**.
- Step 3** Select the **License Reservation** tab, and click **Yes** to confirm. A request code is generated by Secure Workload.
- Step 4** Copy the generated request code.
- Step 5** Go to [CSSM Smart software licensing portal](#) and perform the following actions:
- Navigate to **Inventory > Licenses**.
 - Click **License Reservation**, and then click **Proceed** to continue.

Figure 3: Licenses Page-CSSM Portal

The screenshot shows the 'Licenses' page in the Cisco Software Central portal. The page title is 'Smart Software Licensing'. Below the title, there are navigation links: Alerts, Inventory, Convert to Smart Licensing, Reports, Preferences, On-Prem Accounts, and Activity. A 'Virtual Account' section shows a small bar chart and a 'Major' alert icon. The main content area has tabs for General, Licenses (selected), Product Instances, and Event Log. There are buttons for 'Available Actions', 'Manage License Tags', and 'License Reservation...' (highlighted with a green box). A search bar is labeled 'Search by License'. Below these elements is a table with the following data:

License	Billing	Available to Use	In Use	Substitution	Balance	Alerts	Actions
<input type="checkbox"/> Secure Workload PLR	Prepaid	10	0	-	+10		Actions
<input type="checkbox"/> Tetration Endpoint Visibility	Prepaid	10	0	-	+10		Actions

- Enter the request code generated by Secure Workload, and then click **Next**.

Figure 4: License Reservation-CSSM Portal

Cisco Software Central

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:

Upload File

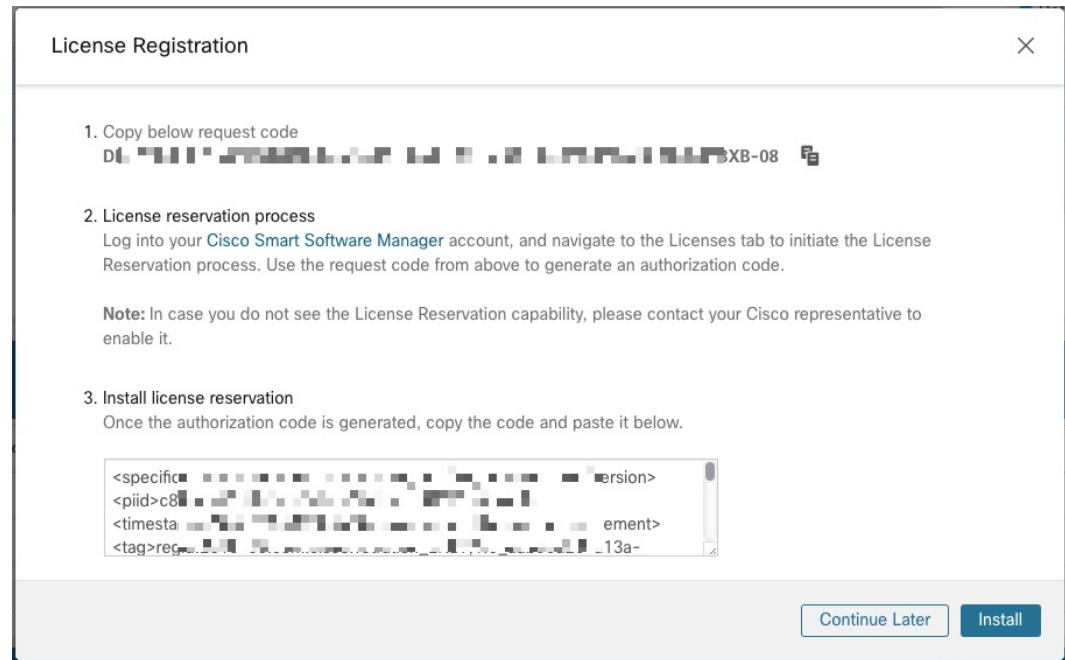
Browse Upload

Cancel Next

- d) Under **Licenses to Reserve**, choose either of the following and click **Next**.
- Secure Workload PLR: No limitations on the number of workloads and endpoints that can be configured on the cluster.
 - Reserve a specific license: Based on the purchased workload and endpoint licenses, update the reserve count for Tetratation Workload Protection and Tetratation Endpoint Visibility license types.
- e) Review the license type selected and the quantity of licenses to reserve, and then click **Generate Authorization Code**.
- f) Click **Copy to Clipboard**.
- g) Click **Close** to exit the wizard.

Step 6 In Secure Workload, enter the authorization code and click **Install**.

Figure 5: Secure Workload License Reservation Page



On the CSSM portal, the reserved licenses can be viewed under the **Licenses** tab.

**Note**

- During the license reservation process, you can also select **Continue Later**. To resume the reservation process, on the **License Usage Information** page, click **Continue Reservation**.
- If you decide to cancel the license reservation, click **Cancel Reservation** on the **License Usage Information** page and perform either of the following actions:
 - When you generate an authorization code, a license is typically reserved for use on CSSM. To return the license, enter the authorization code that is generated from CSSM. A return code is then generated by Secure Workload which needs to be entered in CSSM.
 - If you do not have a license in CSSM, choose the **I do not have a license in CSSM** tab.

Update Specific License Reservation

Procedure

- Step 1** On the CSSM portal, perform these steps:
- a) For the reserved specific license, from the **Actions** drop-down menu, choose **Update Reserved Licenses**.

- b) Choose **Reserve a specific license** and update the reserve count for the required Tetration Workload Protection and Tetration Endpoint Visibility license types.
- c) Click **Next**.
- d) Review the selected reservations and click **Generate Authorization Code**.
- e) Click **Copy to Clipboard**.

Step 2 In Secure Workload, perform these steps to update the reservation of specific licenses:

- a) On the **License Usage Information** page, click **Update Reservation**.
- b) Enter the authorization code from CSSM.
- c) Click **Generate Confirmation Code**.
- d) Copy the generated confirmation code and click **Next**.
- e) The generated confirmation code cannot be recovered later in Secure Workload, ensure that you copy the return code. Click the **Copy** icon.

Step 3 On the CSSM portal, perform these steps to complete the reservation process:

- a) Under **Product Instances**, choose the license to be reserved and click **Actions**.
- b) Choose **Enter Confirmation Code**.
- c) Enter the confirmation code and click **OK**.

Step 4 In Secure Workload, click **Finish** to exit the wizard.

Refresh the **License Usage Information** page to view the updated license reservation details.

Return Specific Licenses Reservation

Procedure

Step 1 In Secure Workload, on the **License Usage Information** page, click **Deregister**.

Step 2 To generate a return code, click **Generate return code**.

Step 3 Click the **Copy** icon to copy the return code and click **Next**. Ensure to copy the generated return code as you cannot recover the code later.

Step 4 To complete the de-registration process, navigate to the CSSM portal and perform these steps:

- a) Under **Product Instances**, choose the license to deregister and click **Actions**.
- b) Choose **Remove**.
- c) Enter the return code and click **Remove Reservation**.

Step 5 In Secure Workload, click **Finish** to exit the wizard.

The reserved licenses are returned to the smart account. Secure Workload enters the evaluation period and the reserved licenses are classified to non-registered compliance state.

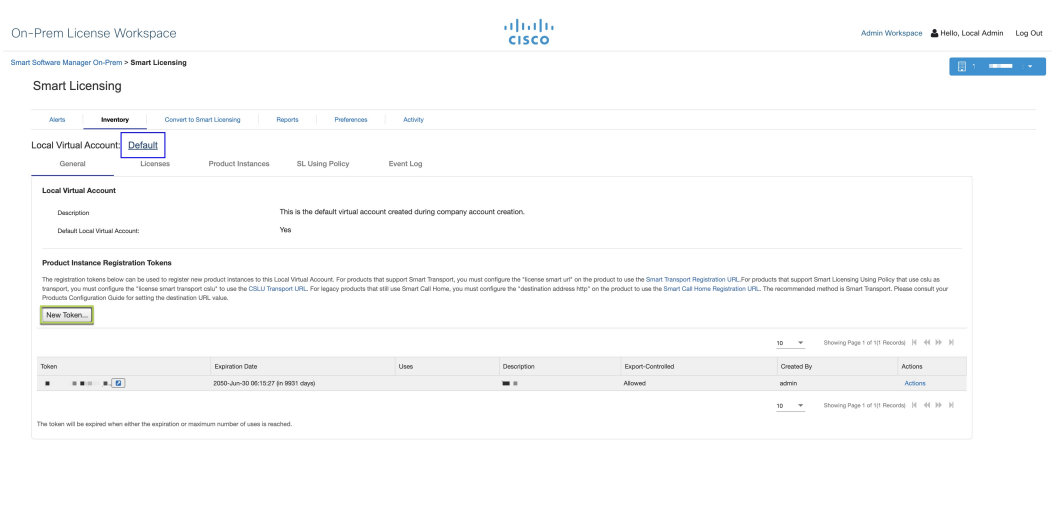
Secure Workload Smart License Registration—CSSM On-Premises

The Smart Software Manager On-Premises allow you to schedule synchronization of licenses or provides an option to manually synchronize Smart License authorizations with the Smart Software Manager portal. You can use CSSM on-premises to register Secure Workload in air-gapped networks or if you prefer to manage smart licenses through a single connection from your network.

Procedure

- Step 1** Setup Smart Software Manager on-premises. For more information, see [Cisco Software Central](#).
- Step 2** Log in to the Smart Software Manager On-prem and select the virtual account. Under the **General** tab, click **New Token**. Follow the onscreen instructions to create a token.

Figure 6: On-Premises License Workspace



- Step 3** In Secure Workload, navigate to **Manage > Service Settings > Licenses**, and then click **Register**.
- Step 4** Under the **Smart Licenses** tab, enter the generated token from the Smart Software Manager On-prem.
- Step 5** Under the **Smart Licenses** tab, in the **Smart Transport Registration URL** field, enter the Smart Transport Registration URL of your Smart Software Manager On-Prem.
- Step 6** (Optional) Enable **Force Register** to continue with the registration even if the cluster UUID is already registered with CSSM.
- Step 7** Click **Register**.

The registration of Secure Workload with the CSSM on-premises is initiated. To view the updated status of the registration, refresh the **License Usage Information** page. Synchronize Smart Software Manager On-Prem to the Smart Software Manager portal after assigning the licenses.

Synchronize Smart Licenses

The license and compliance information is synchronized with the Smart Software Manager portal every 24 hours. However, if the cluster is out of compliance and licenses are renewed on CSSM, you can manually update the licenses by connecting to the CSSM portal directly or through the Smart Software Manager On-prem through these steps:

Procedure

Step 1 On the **License Usage Information** page, click **Renew Operations > Renew Authorization**.

Step 2 To confirm, click **Yes**.

After you refresh the **License Usage Information** page, you can view the updated licenses along with the date and time of the last successful synchronization with CSSM.