

Smart Licensing for New Deployments



Note If you want to learn more about licensing for the enterprise routers running on Cisco IOS XE Release 17.4.1 or later, or if you are looking for licensing information for the Cisco Catalyst 8000 Series routers, see the Smart Licensing Using Policy for the Cisco Enterprise Routing Platforms.

When you purchase the SL-only 16.10.1a or later images, Smart Licensing is enabled by default. However, you must perform the following steps to use the Smart Licensing feature:

- 1. Ensure that the Prerequisites are met.
- 2. Power on your device.
- **3.** Configure Smart Call Home. To view the detailed steps for configuring Call Home, see Configuring Call Home Service.



- **Note** While specifying the Smart Licensing registration URL for the CSSM portal, prefix the URL with HTTPS; HTTP is no longer supported
- 4. Generate a token ID from the CSSM portal. To know how to perform this step, see the Generating a New Token from Cisco Smart Software Manager, on page 3 section.
- 5. Register the device on the portal using the token. To know how to perform this step, see the Registering Device using the id Token, on page 4 section.
- 6. In case of Satellite deployments under call-home profile, remove the default destination CSSM production URL and configure the satellite destination URL.

The following image describes the high level steps involved in configuring Smart Licensing for a new deployment:

Figure 1: Smart Licensing workflow for new deployments





Note You must enable some specific licenses for some enforced features such as HSEC and Boost. These licenses are called enforced licenses. To enable enforced licensing, purchase the required enforced licenses. After you purchase an enforced license, Cisco deposits these licenses in your smart account. When you register your device, the licenses undergo an automatic check after which they are enabled.

See the following topics to know how to configure Smart Licensing:

- Configure Smart Call Home, on page 2
- Enable Smart Licensing, on page 3
- Generating a New Token from Cisco Smart Software Manager, on page 3
- Registering Device using the id Token, on page 4

Configure Smart Call Home

Smart Call Home options that are required for the Smart Licensing are automatically enabled when the Smart Licensing is enabled.

If Smart Call Home is disabled, enable the following:

- **1.** Configure terminal
- 2. Service call-home

In the smart licensing configuration, by default a Cisco TAC-1 profile is configured. For direct cloud access, you must additionally update the following:

- · Configure terminal
- Service call-home
- Call-home > Contact-email-address

When you change from the Call Home to the Smart transport method, you do not have to disable the CiscoTAC-1 call-home profile for Smart Licensing to work as expected.

Enable Smart Licensing

Cisco IOS XE 16.10.1a and Later

When you purchase the Cisco IOS XE 16.10.1a or later images, Smart Licensing is enabled by default. Smart Licensing is the only mode that is available for licensing, and you do not have to perform any additional steps to enable this feature.

Cisco IOS XE 16.9.x or Previous Versions

If you are using Cisco IOS XE 16.9.x or a previous version, Smart Licensing is not enabled by default. To enable the same, execute the following:

- 1. Conft
- 2. license smart enable

What to do next

As the next step, proceed to Registering the Device.

Generating a New Token from Cisco Smart Software Manager

Tokens are generated to register new product instances to the virtual account.

Step 1 Login to Cisco Smart Software Manager at https://software.cisco.com/#.

You must log into the portal using an username and password provided by Cisco.

- **Step 2** Select the **Inventory** tab, and select your virtual account from the **Virtual Account** drop-down list.
- **Step 3** Select the **General** tab, and click **New Token**.

Cisco Software Central > Smart Software Licensing						English [Change]	Hello,	🗊 Smart Account Name 🔻
Smart Software Licensing								Feedback Support Help
Alerts Inventory License Conversion Reports Preferences Satellites Activity					Questions About Licensing? Try our Virtual Assistant			
Virtual Acc	ount: Virtual	Account 1 💌					28 Major	3 Minor Hide Alerts
General	Licenses	Product Instances	Event Log					
Virtual Account								
Description:		Account	Account 1					
Default Virtual Account:		No						
Product In The registrat	stance Registrat	ion Tokens	v product instance:	s to this virtual account.				
New Tol	ken							
Token		Expiration Date		Description	Export-	Controlled	Created By	Actions
ZjgxNzdjYjo	ZjgxNzdjYjctOWRhMC00M2I0L			Token 1	Allowe	d	User 1	Actions -
ZTg2MjBjMzUtN2U0Ni00NDdkL		Expired			Allowe	d	User 1	Actions -

The system displays the Create Registration Token page.

- **Step 4** Enter the token description. Specify the number of days the token must be active.
- **Step 5** Enable the **Allow export-controlled functionality on the products registered with this token** check box.
- **Step 6** Click **Create Token**. After the token is created, click **Copy** to copy the newly created token.

Registering Device using the id Token

Now that you have the token from the CSSM, using the token, execute the <device>#license smart register idtoken < token from CSSM portal > command to complete the smart license configuration.

On successful registration, the device displays the "Registered" status and receives an identity certificate. This certificate is saved on your device and is automatically used for all future communication with Cisco. However, if the registration fails, the system generates an error log.

Example:

Note For an ASR device with redundancy enabled, you must execute write memory after successful registration. This ensures that the registration is valid even if you perform switchover or reload operations.

What to do next

• Enable the required technology package licenses by executing the **license boot level** <*technologypackage*> command from the global config mode.