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# Manage Licenses

## License Manager overview

The Catalyst Center License Manager feature helps you visualize and manage all your Cisco product licenses, including Smart Account licenses. From the main menu, choose **Tools > License Manager**. The **License Manager** window contains tabs with information, including:

- **Overview:**
  - **Switch:** Shows purchased and in-use license information for all switches.
  - **Router:** Shows purchased and in-use license information for all routers.
  - **Wireless:** Shows purchased and in-use license information for all wireless controllers and APs.
  - **ISE:** Shows purchased and in-use license information for devices managed by Cisco Identity Services Engine (ISE).
- **Licenses:** The **License Summary** shows the total licenses purchased from Cisco Smart Software Management (CSSM), the number of licenses that are about to expire, and out-of-compliance details for all types of licenses for all Cisco devices.
- **Sync Status:** In a table, the Smart License Policy (SLP) compliance shows the devices and timeline graph of license usage reports sent from Catalyst Center to CSSM.

To manage licenses, you can use the controls shown above the table listings in each tab. This table describes each of the controls.



### Note

Not all controls are available in every tab.

**Table 1: License management controls**

Control	Description
<b>Filter</b>	Click <b>Filter</b> to specify one or more filter values and then click <b>Apply</b> . You can apply multiple filters. To remove a filter, click the <b>x</b> icon next to the corresponding filter value.
<b>Change Cisco License</b>	Select one or more licenses and choose <b>Actions &gt; Change Cisco License</b> to change the level of a selected license to Essentials or Advantage. You can also use this control to remove a license. For more information, see <a href="#">Change license level, on page 7</a> .
<b>Change Virtual Account</b>	Select one or more licenses and choose <b>Actions &gt; Change Virtual Account</b> to specify the Virtual Account used to manage these licenses.
<b>Manage Smart License &gt; Register</b>	Select one or more Smart License-enabled devices and choose <b>Actions &gt; Manage Smart License &gt; Register</b> to register the Smart License-enabled devices.
<b>Manage Smart License &gt; Deregister</b>	Select one or more Smart License-enabled devices and choose <b>Actions &gt; Manage Smart License &gt; Deregister</b> to unregister the Smart License-enabled devices.
<b>Manage License Reservation &gt; Enable License Reservation</b>	Choose the device for which you want to apply Specific License Reservation (SLR) or Permanent License Reservation (PLR), then choose <b>Actions &gt; Manage License Reservation &gt; Enable License Reservation</b> .

Control	Description
<b>Manage License Reservation &gt; Update License Reservation</b>	The device must be in the SLR registered state. You can update the SLR applied to a wireless device or switch with a wireless controller package. Choose the device for which you want to update the SLR, then choose <b>Actions &gt; Manage License Reservation &gt; Update License Reservation</b> .
<b>Manage License Reservation &gt; Cancel/Return License Reservation</b>	Choose the device and choose <b>Actions &gt; Manage License Reservation &gt; Cancel/Return License Reservation</b> to cancel or return the SLR or PLR applied to the device.
<b>Manage License Reservation &gt; Factory License Reservation</b>	Choose the device and choose <b>Actions &gt; Manage License Reservation &gt; Factory License Reservation</b> to enable the factory-installed SLR on the device.
<b>Recent Tasks</b>	Click <b>Recent Tasks</b> to see a list of all 50 of the most recently performed Catalyst Center tasks. Use the drop-down to filter the list to show only those tasks with a status of <b>Success</b> , <b>Failure</b> , or <b>In Progress</b> .
<b>License Usage</b>	Click <b>License Usage</b> to see the license utilization percentage for all types of licenses.
<b>Refresh</b>	Click <b>Refresh</b> to reload the window with current data.
<b>Find</b>	Enter a search term in the <b>Find</b> field to find all licenses in the list that have that term in any column. Use the asterisk (*) character as a wildcard anywhere in the search string.

The Licenses table displays the information shown for each device. All of the columns support sorting. Click the column header to sort the rows in ascending order. Click the column header again to sort the rows in descending order.



#### Note

Not all columns are used in every tab. Also, some of the columns are hidden in the default column view setting. To view the hidden columns, click the gear icon and under **Edit Table Columns**, choose the columns you want displayed in the table.

**Table 2: License use information**

Column	Description
Device Type: Device Series	Name of the device product series (for example, Catalyst 3850 Series Ethernet Stackable Switch). For more information, see <a href="#">View license details, on page 7</a> .
Device Type: Total Devices	The total number of devices in this product series that are under active management by Catalyst Center.
Purchased Cisco Licenses	The total number of purchased Catalyst Center subscription licenses for the devices in this product series.
Purchased Licenses: Network/Legacy	The total number of purchased Network (or Legacy) perpetual licenses for the devices in this product series.
Used Licenses	The total number of Catalyst Center subscription licenses applied to the devices in this product series.

Column	Description
Used Licenses: Network/Legacy	The total number of Network perpetual licenses for the devices in this product series.
Feature Licenses (applicable only for Routers)	The number of licenses purchased for specific features such as security, AVC, and so on.

**Table 3: All license information**

Column	Description
Device Name	Name of the device. For more information, see <a href="#">View license details, on page 7</a> .
Device Family	The category of the device, such as Switches and Hubs, as defined by Catalyst Center.
IP Address	IP address of the device.
Device Series	The full name of the Cisco product series to which the listed device belongs (for example, Cisco Catalyst 3850 Series Ethernet Stackable Switch).
Cisco License	The Catalyst Center license level.
Cisco License Expiry	The expiration date of the Catalyst Center license.
License Mode	The Catalyst Center license mode.
Network License	The type of network license.
Virtual Account	<p>The name of the Cisco Virtual Account managing the license for the device.</p> <p>The Virtual Account and the site hierarchy are distinct entities and aren't interconnected.</p> <p>Licensing operations might fail if the virtual account name contains any of these characters: /, \, =. We recommend that you remove these characters from your virtual account name through the Cisco SSM portal (software.cisco.com) and then perform a refresh from the <b>License Manager Overview</b> window.</p>
Site	The Catalyst Center site where the device is located.
Registration Status	The registration status of the device.
Authorization Status	The authorization status of the device.
Reservation Status	The reservation status of the device.
Last Updated Time	The last time this entry in the table was updated.
MAC Address	The MAC address of the licensed device.
Term	The total term during which the Catalyst Center subscription license is in effect.
Days to Expiry	The number of days remaining until the Catalyst Center license term expires.
Software Version	The version of the network operating system currently running on the device.

## Integration with Cisco Smart Accounts

Catalyst Center supports Cisco Smart Accounts, an online Cisco service that provides simplified, flexible, automated software- and device-license purchasing, deployment, and management across your organization. You can add multiple Cisco Smart Accounts.

When there are multiple Cisco Smart Accounts, one account is designated as the default, which the License Manager uses for visualization and licensing operations (such as registration, license level changes, and so on).

Virtual Accounts serve as subdivisions within a Cisco Smart Account, offering enhanced control over licenses and entitlements associated with the Smart Account. Virtual Accounts and the site hierarchy are distinct entities and are not interconnected.

After changing the default Cisco Smart Account, it takes several minutes to retrieve the data from CSSM and display it on the License Manager Overview and All License windows.

You can delete any Cisco Smart Accounts, except for the default account.

If you already have a Cisco Smart Account, you can use Catalyst Center to:

- Track your license consumption and expiration
- Apply and activate new licenses, without intervention
- Promote each device's license level from Essentials to Advantage (or vice versa) and reboot the device with the newly changed level of feature licensing
- Identify and reapply unused licenses

You can accomplish this automatically, without leaving Catalyst Center.

## Set up License Manager

You must set up access to your Cisco Smart Account before you can use the Catalyst Center License Manager tools.

- Ensure that you have SUPER-ADMIN-ROLE permissions and the appropriate RBAC scope to perform this procedure.
- Collect the Cisco user ID and password for your Smart Account.
- If you have multiple Smart Accounts, choose the Smart Account that you want to use with Catalyst Center, and collect that account's user ID and password.
- To enable a Smart Account, Catalyst Center must have reachability to tools.cisco.com.
- To apply licenses to a device in Catalyst Center, the device must be present in Inventory, must have a site assigned to it, and must have reachability to tools.cisco.com.
- Ensure that all allowed ports, FQDNs, and URLs listed in the [Cisco Catalyst Center Installation Guide](#) are allowed on any firewall or proxy.

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|---------------|---|
| <b>Step 1</b> | Log in using a Catalyst Center system administrator username and password.                                |
| <b>Step 2</b> | From the main menu, choose <b>System &gt; Settings &gt; Cisco.com Credentials</b> .                       |
| <b>Step 3</b> | Under <b>Cisco.com Credentials</b> , enter the username and password for your cisco.com account.          |
| <b>Step 4</b> | From the main menu, choose <b>System &gt; Settings &gt; Smart Account</b> .                               |
| <b>Step 5</b> | Under <b>Smart Account</b> , click <b>Add</b> and enter the username and password for your Smart Account. |
| <b>Step 6</b> | Click <b>Save</b> .   |

- Step 7** If you have multiple Smart Accounts, click **Add** and enter your additional accounts.
- Step 8** If you have multiple Smart Accounts, choose one account to be the default. The License Manager uses the default account for visualization and licensing operations. To change the default Smart Account:
- Click **Change** next to the selected Smart Account name.
  - Change the active Smart Account and choose a Smart Account to be the default.
  - Click **Apply**.  
After changing the default account, it takes several minutes to retrieve the data from CSSM and display it on the License Manager Overview and All License windows.
- Step 9** To edit a Smart Account, click the three dots in the Actions column and choose **Edit**.
- Step 10** To delete a nondefault Smart Account, click the three dots in the Actions column and choose **Delete**.
- Step 11** To access your Smart Account using a virtual or subordinate Smart Account name and password, under **Link Your Smart Account**, choose:
- **Use Cisco.com user ID** if your cisco.com and Smart Account credentials are the same.
  - **Use different credentials** if your cisco.com and Smart Account credentials are different, and then enter your Smart Account credentials.
- Step 12** Click **View all virtual accounts** to view all virtual Smart License Accounts.

### What's next

Register the Catalyst Center controller as a controller for Cisco Plug and Play Connect in a Cisco Smart Account, for redirection services. This also allows you to synchronize the device inventory from the Cisco Plug and Play Connect cloud portal to Catalyst Center Plug and Play. For more information, see "Register or Edit a Virtual Account Profile" in the [Cisco Catalyst Center User Guide](#).

## Visualize license use and expiration

Catalyst Center can display graphical representations of your purchased licenses, how many of them are in use (that is, assigned to devices), and their duration.

- Step 1** From the main menu, choose **Tools > License Manager**.
- Step 2** In the **Overview** tab, Catalyst Center displays the name of the active Smart Account. From the **Virtual Account** drop-down list, choose a virtual account to display the license details.
- Step 3** Click a device category button to view the corresponding license usage details: **Switches**, **Routers**, **WLC**, or **ISE**.
- The license usage pie charts display the aggregate number of purchased licenses and the number of licenses currently in use for the selected device category. The charts also indicate the proportion of Essentials and Advantage licenses within each total.
- The number of purchased licenses is obtained from the Cisco Smart Software Manager (CSSM). The number of used licenses is sourced from the devices managed by Catalyst Center.
- The license usage table shows the subtotals for used and available licenses, listed alphabetically by product family name.
- Step 4** To see details for a particular product family, click the name of the product family under the **Device Series** column. Catalyst Center displays details about the product family that you selected.

**Step 5** To see a graphical representation of license duration, scroll down to the **Cisco License Timeline** section. The timeline graph for each product family is a visual representation of when the licenses in the configured Smart Account expires for that product family.



**Note**

This section isn't available for the **ISE** device category.

## View historical trends for license consumption

Catalyst Center allows you to view historical trends for all purchased and consumed licenses in CSSM on a daily, weekly, and monthly basis. CSSM stores the historical information for up to one year.

Catalyst Center must be registered to a particular smart account in CSSM. For more information, see [Integration with Cisco Smart Accounts, on page 4](#).

**Step 1** From the main menu, choose **Tools > License Manager > Licenses**.

- The **License Summary** area shows the total number of purchased Catalyst Center subscription licenses from CSSM.
- The **Smart Account** area displays the details about the smart account.
- The **CNS ESSENTIALS**, **CNS ADVANTAGE**, **DNA ESSENTIALS**, **DNA ADVANTAGE**, **NETWORK ESSENTIALS**, and **NETWORK ADVANTAGE** areas display the number of **Total Licenses**, **About to Expire**, and **Out of Compliance** Catalyst Center subscription licenses for the corresponding license type.
- In the **License** window, a table filters your discovered devices and their licenses based on the views from the **Focus** drop-down list, including:
  - Virtual account view
  - Licenses view
  - Device series view
  - Device type view
  - License type view

**Step 2** To view the historical information of a chosen license, click the license link in the row for that device.

A license details slide-in pane shows the complete license details and license history of the chosen device.



**Note**

The title of the license details slide-in pane matches the title of the chosen device.

**Step 3** In the license details slide-in pane, choose the frequency of historical information from the **Frequency** drop-down list. The available frequencies are:

- **Daily**: Displays the license data snapshot on the first day.
- **Weekly**: Displays the license data snapshot on Monday.
- **Monthly**: Displays the license data snapshot on the first day of the month.

Depending on the frequency selection a graph is displayed that shows the license data based on **Purchased**, **In Use**, and **Balance** licenses.

Depending on the frequency selection, the **License History** table filters the license historical information based on **Date**, **Purchased**, **In Use**, and **Balance**.



**Note**

License historical information is always one day old, because CSSM provides this information from the previous data onwards. Catalyst Center periodically retrieves the license historical information from CSSM daily.

## View license details


There are many ways to find and view license details in Catalyst Center. For example, you can click the license usage and term graphs displayed in the **Switches**, **Routers**, **Wireless**, **ISE**, or **Devices** tabs in the **License Manager** window. Each graph displays pop-ups with aggregated facts about licenses for each of these product families.

This method provides the comprehensive license details for a single device using the **Devices** table in the License Manager.

**Step 1** From the main menu, choose **Tools > License Manager > Devices**.

The License Manager window displays a table listing all of your discovered devices and their licenses. Information in the table includes only basic device and license information, such as device type, license expiration dates, and so on.

**Step 2** Scroll through the table to find the device whose license details you want to see. If you are having trouble finding the device you want, you can:


- **Filter:** Click  and then enter your filter criteria in the appropriate field. (For example, enter all or part of the device name in the **Device Name** field.) You can enter filter criteria in multiple fields. When you click **Apply**, the table displays only the rows displaying information that matches your filter criteria.

If you want to view the devices that belong to a particular site, navigate to the site in the left pane, and click the site. The devices are filtered accordingly. A site marker indicating the site hierarchy is displayed at the top of the page.

- **Find:** Click in the **Find** field and enter the text you want to find in any of the table columns. When you press **Enter**, the table scrolls to the first row with text that matches your entry in the **Find** field.
- **Customize:** Click the gear icon and under **Edit Table Columns**, choose the columns you want displayed in the table. For example, deselect **Device Series** or select **Days to Expiry**. When you click **Apply**, the table displays only the columns you selected.

**Step 3** When you find the device that you want, click the **Device Name** link in the row for that device.

Catalyst Center displays the **License Details** slide-in pane with complete license details and license history for the device that you selected. **Actions** displays actions that can be performed on the device or its licenses.

When you are finished, click  to close the **License Details** slide-in pane.

## Change license level

You can upgrade or downgrade the license level of your device licenses for these license types.

- DNA

- CNS

Your license level choices are either the basic Essentials level or the comprehensive Advantage level.



#### Note

- You can't change the license type for a device. You can only change the license level for the corresponding license type.
- Network license conversion is available for products in the Cisco Catalyst 9000 device family only and network license conversion is handled implicitly when the Catalyst Center license level is changed.
- You can't simultaneously change the license level for devices from different families, such as routers, switches, and wireless controllers.

You can update the license level with Catalyst Center subscription licenses. When you change the license level of a device, Catalyst Center automatically downloads and applies your licenses behind the scenes, using your Smart Account.

License level change becomes effective after the device reboots. However, reboot isn't necessary for devices like Cisco Catalyst 3560-CX Series Switches and Cisco AireOS Wireless Controller.

**Step 1** From the main menu, choose **Tools > License Manager > Devices**.

The **License Manager** window displays a table listing the discovered devices and their licenses.

**Step 2** Use **Find** or scroll through the table to find the devices whose license level you want to change. If you're having trouble finding the device you want, or want to choose multiple devices, follow the tips in [View license details, on page 7](#) to change the table to display only the devices you want.

**Step 3** Check the check box next to the devices for which you want to change the license level.

**Step 4** Hover your cursor over **Actions** and choose **Change License > Change Cisco License**.

The **Change Cisco License Level** dialog box opens.

**Step 5** If you chose devices from multiple device families (for example, switches and wireless controllers), complete these steps.

- Click the radio button next to the device family for which you want to change the license level: **Routers**, **Switch**, or **Wireless**
- Click **Continue**.

**Step 6** Choose the required license level.

- Click the required license level for the devices.

Based on the current license level, Catalyst Center displays only the available license level: **Essentials** or **Advantage**.

To remove the license from the device, click **Remove**.



#### Note

You can't remove the CNS license from a device. When you remove the CNS license, the device defaults to using the CNS Advantage license.

- Choose a license type.

Click the required license type: **All**, **DNA**, or **CNS**

- Click **Continue**.

**Step 7** Check the **Reboot device on update** check box to reboot the device when its license level is updated.



- Step 8** (Optional) In the **Task Name** field, update the task name.
- Step 9** Choose a schedule for updating the license level.  
**Choose from:**
- **Now:** Immediately update the license level and reboot the devices.
  - **Later:** Schedule the date and time, and define the time zone to update the license level and reboot the devices.
- Step 10** Click **Confirm**.
- Step 11** Click the **Recent Tasks** link to launch the **Recent Tasks** window.  
You can view the license level change task status in the **Recent Task** window.

## Auto registration of Smart License-enabled devices

You can enable auto registration of Smart License (SL)-enabled devices. When auto registration is enabled, any SL-enabled devices (but not Smart License Policy [SLP]-enabled devices) added to Catalyst Center are automatically registered to the chosen virtual account.



### Note

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Auto registration is not supported in Smart Proxy mode.

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- Step 1** Log in using a Catalyst Center system administrator username and password.
- Step 2** From the main menu, choose **System > Settings > Cisco Accounts > Smart Account**.
- Step 3** Click **License**.
- Step 4** Check the **Auto register smart license enabled devices** check box.
- Step 5** Choose a virtual account.
- Step 6** Click **Apply**.

## Day-zero configuration for Smart License-enabled devices

Devices that are already added to Catalyst Center before enabling auto registration are not automatically registered. You can view the Smart License-enabled devices that are not registered in the **All Licenses** window.

- Step 1** From the main menu, choose **Tools > License Manager > Devices**.
- The **License Manager** window displays a banner message with the number of SL-enabled devices that are not auto registered and a table listing all of your discovered devices and their licenses with a link to set up auto registration. Alternatively, you can filter the unregistered devices by using the **Registration Status** column.
- Step 2** Choose the SL-enabled devices that you want to register and choose **Actions > Manage Smart License > Register**.
- Step 3** Choose the virtual account and click **Continue**.
- Step 4** To register the devices:  
**Choose from:**
- If you want to register the devices immediately, choose **Now** and click **Confirm**.

- If you want to register the devices later, choose **Later** and specify a date and time. After specifying the schedule parameters, click **Confirm**.

## Apply Specific License Reservation or Permanent License Reservation to devices

Smart Licensing requires a smart device instance to regularly sync with Cisco Smart Software Management (CSSM) so that the latest license status is refreshed and compliance is reported. Some customers have devices that are within highly secured networks with limited internet access. In these types of networks, devices cannot regularly sync with CSSM and show out of compliance. To support these customer environments, Specific License Reservation (SLR) and Permanent License Reservation (PLR) have been introduced. The License Manager enables Catalyst Center customers to reserve licenses securely from CSSM using an API-based workflow. In Catalyst Center, it requires a one-time connectivity to CSSM in the staging environment, then the devices never need to connect to Cisco in SLR or PLR mode. If no connectivity to CSSM or staging is possible, you can resort to the manual SLR/PLR workflow available in CSSM.

SLR lets you install a node-locked license file (SLR authorization code) on a product instance. This license file enables individual (specific) licenses (entitlement tags).

PLR lets you install an authorization code that enables all licensed features on the product.

Both SLR and PLR require preapproval at the Smart Account level. Contact [licensing@cisco.com](mailto:licensing@cisco.com) for support.

To enable SLR or PLR when both the device and Catalyst Center are connected to CSSM, see [Enable SLR or PLR when the devices and Catalyst Center are connected to CSSM, on page 10](#).

To enable SLR or PLR when the device and Catalyst Center do not have connectivity to CSSM, see [Enable SLR or PLR when the devices and Catalyst Center are not connected to CSSM, on page 11](#).

### Enable SLR or PLR when the devices and Catalyst Center are connected to CSSM

- Step 1** From the main menu, choose **Tools > License Manager > Devices**.
- Step 2** Select the devices for which you want to apply SLR or PLR, and choose **Actions > Manage License Reservation > Enable License Reservation**.
- Step 3** Choose **Specific License Reservation (SLR)** or **Permanent License Reservation (PLR)** and click **Continue** to obtain the request codes for the selected devices.
- Step 4** After the request codes are generated for the selected devices, click **Continue**.
- Step 5** Choose a virtual account from which you want to reserve licenses and click **Continue** to generate the authorization codes for the selected devices.
- Step 6** After the authorization codes are generated, do any of the following:
  - To apply SLR immediately, choose the devices and click **Continue**.
  - To apply SLR later, click **Apply Later**.
- Step 7** Click **Confirm** to apply SLR/PLR to the selected device.  
You can now view the updated status of the devices under **Reservation Status** on the **All Licenses** window.

## Enable SLR or PLR when the devices and Catalyst Center are not connected to CSSM

Use this procedure to enable SLR or PLR for the devices that are not connected to CSSM.

- Step 1** From the main menu, choose **Tools > License Manager > Devices**.
- Step 2** Select the devices for which you want to apply SLR or PLR, and choose **Actions > Manage License Reservation > Enable License Reservation**.
- Step 3** Choose **Specific License Reservation (SLR)** or **Permanent License Reservation (PLR)** and click **Continue** to obtain the request codes for the selected devices.  
  
You also can connect to the device through Telnet to obtain the request code.
- Step 4** After the request codes are generated for the selected devices, click **Export**. This downloads the requestcodes.csv file, which contains the IP address, serial number of the device, and the request code.
- Step 5** Save the file to your preferred location.
- Step 6** Obtain the authorization code for each device from CSSM and update it in the CSV file. See [Generate the authorization code from CSSM](#).
- Step 7** Click the **Upload CSV** link.
- Step 8** Click the **Select a file from your computer** link to select the saved CSV file.
- Step 9** Click **Continue**.
- Step 10** Choose a virtual account from which you want to reserve licenses and click **Continue**. SLR or PLR is applied to the selected devices.  
  
You can now view the updated status of the devices under **Reservation Status** on the **All Licenses** window.

## Generate the authorization code from CSSM

You must have Smart Account credentials to log in to CSSM.

- Step 1** Log in to CSSM.
- Step 2** Choose **Inventory > Licenses > License Reservation**. The Smart License Reservation wizard appears.  
  
The **License Reservation** button is visible on the **Licenses** tab only if you have specific license reservation enabled for your Smart Account.
- Step 3** In the **Step 1: Enter Request Code** tab, enter the request code in the **Reservation Request Code** field and click **Next**.
- Step 4** In the **Step 2: Select Licenses** tab, check the **Reserve a specific license** check box.
- Step 5** In the **Quantity to Reserve** field, enter the number of licenses that you want to reserve and click **Next**.
- Step 6** In the **Step 3: Review and Confirm** tab, click **Generate Authorization Code**.
- Step 7** Get the authorization code from the **Step 4: Authorize Code** tab.

## Cancel SLR or PLR applied to devices

You can cancel or return the SLR or PLR that is applied to a device.

- Step 1** From the main menu, choose **Tools > License Manager > Licenses**.
- Step 2** Click the device and choose **Actions > Manage License Reservation > Cancel/Return License Reservation**.

**Step 3** Click **Cancel** to return the licenses.

You can view the updated status of the devices under **Reservation Status** on the **All Licenses** window.

## Install the authorization code and enable the high security license

Cisco offers a throughput of 250 Mbps by default. To increase the device throughput to more than 250 Mbps, you must get the authorization code from Cisco. You can install the authorization code and enable the High Security (HSEC) license in a single workflow or in separate workflows, as required.

Ensure that the device is running Cisco IOS XE Release 17.3.2 or later.

**Step 1** From the main menu, choose **Tools > License Manager > Reporting**.

Alternatively, you can use **Workflows > Smart License Compliance**.

**Step 2** Click the **Smart License Compliance** card.

**Step 3** In the **Smart License Compliance** window, click **Let's Do It**.

To skip this window in the future, check **Don't show this to me again**.

**Step 4** In the **Select Smart Account** window, choose **Smart Account** and **Virtual Account** from the drop-down list.

**Step 5** Click **Next**.

**Step 6** In the **Choose Sites and Devices** window, choose the devices on which you want to install the authorization code and click **Next**.

**Step 7** In the **Policy Settings** window, review the CSSM policies and click **Next**.

**Step 8** In the **Choose Device Features** window, do these steps:

- a) Choose the devices.
- b) From the **Auth Codes** drop-down list, choose **Install**.
- c) From the **HSEC** drop-down list, choose **Enable**.
- d) Click **Next**.

**Step 9** In the **Review Device Features** window, click **Next**.

**Step 10** In the **Installing Device Features** window, view the authorization code and HSEC installation status and click **Next**.

**Step 11** In the **Sync Data with Cisco** window, click **Next**.

**Step 12** In the **Summary** window, review the authorization code and HSEC installation status; then, click **Finish**.

## Disable the high security license

You can disable the HSEC license from a device if you don't want to consume the HSEC license unnecessarily.

**Step 1** From the main menu, choose **Tools > License Manager > Reporting**.

**Step 2** Click the **Smart License Compliance** card.

**Step 3** In the **Smart License Compliance** window, click **Let's Do It**.

To skip this window in the future, check **Don't show this to me again**.

**Step 4** In the **Select Smart Account** window, choose **Smart Account** and **Virtual Account** from the drop-down list.

**Step 5** Click **Next**.

- Step 6** In the **Choose Sites and Devices** window, choose the devices from which you want to disable the HSEC license and click **Next**.
- Step 7** In the **Policy Settings** window, click **Next**.
- Step 8** In the **Choose Device Features** window, do these steps:
- a) Choose the devices.
  - b) From the **HSEC** drop-down list, choose **Disable**.
  - c) Click **Next**.
- Step 9** In the **Review Device Features** window, click **Next**.
- Step 10** In the **Installing Device Features** window, view the HSEC disable operation status and click **Next**.
- Step 11** In the **Sync Data with Cisco** window, click **Next**.
- Step 12** In the **Summary** window, click **Finish**.

## Upload resource use details to CSSM

You can upload resource use details to CSSM instantly or schedule an upload.

To upload resource use details to CSSM, devices don't have to have NETCONF enabled, and devices don't have to be added to the site.

- Step 1** From the main menu, choose **Tools > License Manager > Reporting**.
- Step 2** Click the **Smart License Compliance** card.
- Step 3** In the **Smart License Compliance** window, click **Let's Do It**.
- To skip this window in the future, check **Don't show this to me again**.
- Step 4** In the **Select Smart Account** window, choose **Smart Account** and **Virtual Account** from the drop-down list.
- Step 5** Click **Next**.
- Step 6** In the **Choose Sites and Devices** window, choose the devices from which you want to retrieve the resource utilization details and click **Next**.
- Step 7** To upload the resource utilization details instantly, click **Next** in the **Modify Policy** window. To modify the scheduled reporting frequency:
- a) Under **Policy Settings**, click **Modify** corresponding to the **Reporting Interval** field.
  - b) In the **Change Reporting Interval** window, enter the value.
- The reporting interval (in days) denotes the frequency of scheduled upload of resource utilization details from Catalyst Center to CSSM. The frequency of uploads can be increased but cannot be reduced below the minimum reporting frequency.
- c) Click **Save**.
- Step 8** In the **Sync Data with Cisco** window, click **Next**.
- Step 9** In the **Summary** window, click **Finish**.

After successful synchronization of data with CSSM, Catalyst Center sends an acknowledgment to the devices.

## What's next

The number of devices for which the license usage reporting has failed is shown in a separate **Smart License Compliance** card with the **Retry** option. Click the **Smart License Compliance** card and redo the above procedure to send the license usage reports from the failed devices to CSSM.

## Sync licensing connection mode

Smart Call Home (SCH) support for Smart Licensing reaches end-of-life from Catalyst Center 2.3.7.6. If you're using SCH with Smart Licensing, transition to Smart Transport.

**Step 1** From the main menu, choose **Tools > License Manager > Devices**.

If you see a **Connection mode out of sync** warning message for the Smart License-enabled devices, click the warning message to view the connection mode out of sync details.

**Step 2** In the **License Manager window**, click **Sync Connection Mode**.

The connection mode transition from SCH to Smart Transport occurs in this sequence:

- a. Deregister SCH
- b. Push the Smart Transport URL to the device
- c. Complete Smart Licensing registration

**Step 3** (Optional) From the main menu, choose **Activities > Tasks** to view the **Sync Connection Mode** task status.

**Step 4** (Optional) From the main menu, choose **Activities > Audit Logs** to view the configuration changes to the device.

## Change device throughput

You can change the throughput of Smart License-enabled routers.

**Step 1** From the main menu, choose **Tools > License Manager > Reporting**.

**Step 2** Choose the device that you want to change.

**Step 3** Click **More Actions** and choose **Change Throughput**.

**Step 4** In the **Choose Throughput** window, choose the throughput value and click **Next**.

**Step 5** In the **Apply Throughput** window, click **Next**.

**Step 6** Click the **Recent Tasks** link to launch the **Recent Tasks** window.

You can view the **Change Throughput** task status in the **Recent Task** window.

## Transfer licenses between virtual accounts

You can transfer licenses between virtual accounts.

**Step 1** From the main menu, choose **Tools > License Manager > Licenses**.

**Step 2** Choose the licenses that you want to transfer and click **Transfer Licenses**.

**Step 3** In the **Transfer Licenses** window, choose the virtual account.

**Step 4** Enter the **Transfer License Count** for each of the chosen licenses and click **Transfer**.

**Step 5** Click the **Recent Tasks** link to launch the **Recent Tasks** window.

You can view the **License Transfer** task status in the **Recent Task** window.

## Manage customer tags on Smart License-enabled devices

You can add a maximum of four customer tags to a Smart License-enabled device to help identify telemetry data for a product instance. You can also update and delete the customer tags.

**Step 1** From the main menu, choose **Tools > License Manager > Reporting**.

**Step 2** Choose the devices on which you want to add customer tags.

**Step 3** Click **More Actions** and choose **Manage Free Form Fields** to add, update, or delete customer tags.

**Step 4** To add or update customer tags, in the **Free Form Fields** window:

- a) Enter the customer tags.
- b) Click **Save**.

**Step 5** To delete customer tags, in the **Free Form Fields** window:

- a) Click the delete icon for the customer tags that you want to delete.
- b) Click **Save**.
- c) In the **Warning** window, click **Continue**.

**Step 6** Click the **Recent Tasks** link to launch the **Recent Tasks** window.

You can view the **Manage Customer Tags** task status in the **Recent Task** window.

## Modify license policy

You can modify the reporting interval at which network devices report their feature usage to CSSM.

**Step 1** From the main menu, choose **Tools > License Manager > Reporting**.

**Step 2** In the **Smart License** table, click **Modify Policy**.

The **Modify Policy** window shows the policy settings and CSSM policy details.

**Step 3** Under **Policy Settings**, click **Modify**.

**Step 4** In the **Change Reporting Interval** window, enter the reporting interval value.

**Step 5** Click **Save**.