



# Cisco Telemetry Broker

Smart Software Licensing Reservation Guide 1.2



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# Introduction



Use this guide to license Cisco Telemetry Broker through Cisco Smart Software Licensing if you have a closed/airgap network.

Cisco Smart Licensing is a flexible licensing model that provides you with an easier, faster, and more consistent way to purchase and manage software across the Cisco portfolio and across your organization. And it's secure – you control what users can access. With Smart Licensing you get:

- **Easy Activation:** Smart Licensing establishes a pool of software licenses that can be used across the entire organization—no more PAKS (Product Activation Keys).
- **Unified Management:** My Cisco Entitlements (MCE) provides a complete view into all of your Cisco products and services in an easy-to-use portal, so you always know what you have and what you are using.
- **License Flexibility:** Your software is not node-locked to your hardware, so you can easily use and transfer licenses as needed.

To use Smart Licensing, you must first set up a Smart Account on Cisco Software Central ([software.cisco.com](https://software.cisco.com)).

For a more detailed overview on Cisco Licensing, got to [cisco.com/go/licensingguide](https://cisco.com/go/licensingguide).

## Cisco Smart Account

To use Cisco Smart Licensing with Cisco Telemetry Broker, make sure you have a Cisco Smart Account. With a Cisco Smart Account, you can view your software, services, and devices in one portal (also known as Cisco Smart Software Manager).

For licensing Cisco Telemetry Broker, you will use your Smart Account to register your product instance, manage licenses, run reports, and configure notifications. For more information, refer to Smart Licensing on [cisco.com](https://cisco.com).

- **Log In:** Log in to your Cisco Smart Account, or create a new account, at <https://software.cisco.com>. Refer to **1. Log in to your Cisco Smart Account** for more information.
- **Tutorials:** For video tutorials, refer to [Smart Licensing Resources](#).
- **Instructions:** For detailed instructions about using your Cisco Smart Account, log in to your Cisco Smart Account. Click Help or use the online assistant.

## Assistance

For assistance with your Cisco Smart Account and Cisco Telemetry Broker, please contact us through either of the following resources:

- Go to Support Case Manager at <https://mycase.cloudapps.cisco.com/case> and choose **Software Licensing** > **Security Related Licensing** as a case type.
- Call your TAC world-wide support number at <https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html> and open a licensing request.

## License Reservation

To use License Reservation with Cisco Telemetry Broker, make sure License Reservation is configured on your Smart Account.

- **Confirm:** To confirm that your account is set up for License Reservation, refer to [Confirm License Reservation](#).

# Confirm License Reservation

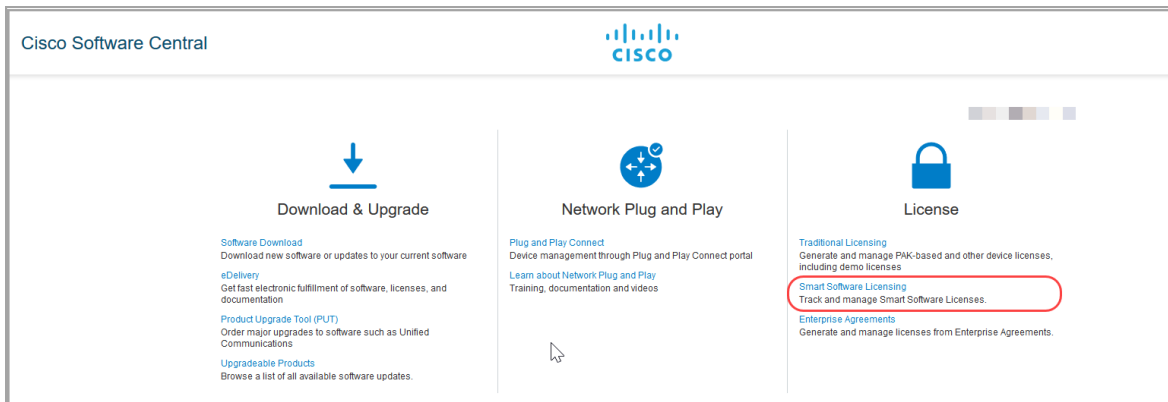
Before you request licenses for this product, make sure your account is set up for License Reservation and review the inventory.

## 1. Log in to your Cisco Smart Account

1. Go to Cisco Software Central at <https://software.cisco.com>.
2. Click the **User** icon.



3. Log in with your CCOID credentials.
4. In the License section, click **Smart Software Licensing**.



## 2. Confirm License Reservation and Inventory

1. Choose **Inventory > Licenses**.
2. Confirm the **License Reservation** button is shown. If it is not shown, log in to your Support Case Manager at  
<https://mycase.cloudapps.cisco.com/case>  
and choose **Open New Case > Software Licensing > Security Related Licensing > Administration**.

Cisco Software Central > Smart Software Licensing InternalTestDemoAccount15.cisco.com

Smart Software Licensing Feedback Support Help

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

Virtual Account: CTB

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

Available Actions - Manage License Tags **License Reservation...** By Name | By Tag

Search by License

License	Billing	Purchased	In Use	Substitution	Balance	Alerts	Actions
<input type="checkbox"/> CTB PLR	Prepaid	5	0	-	+ 5		Actions
<input type="checkbox"/> Telemetry Broker - Broker Lic 1 GB	Prepaid	500	14	-	+ 486		Actions

Showing All 2 Records

3. If you will be reserving licenses for your product instance, click the Licenses tab. Review the inventory and confirm you have a surplus of licenses available.


If your licenses are not shown on your account:

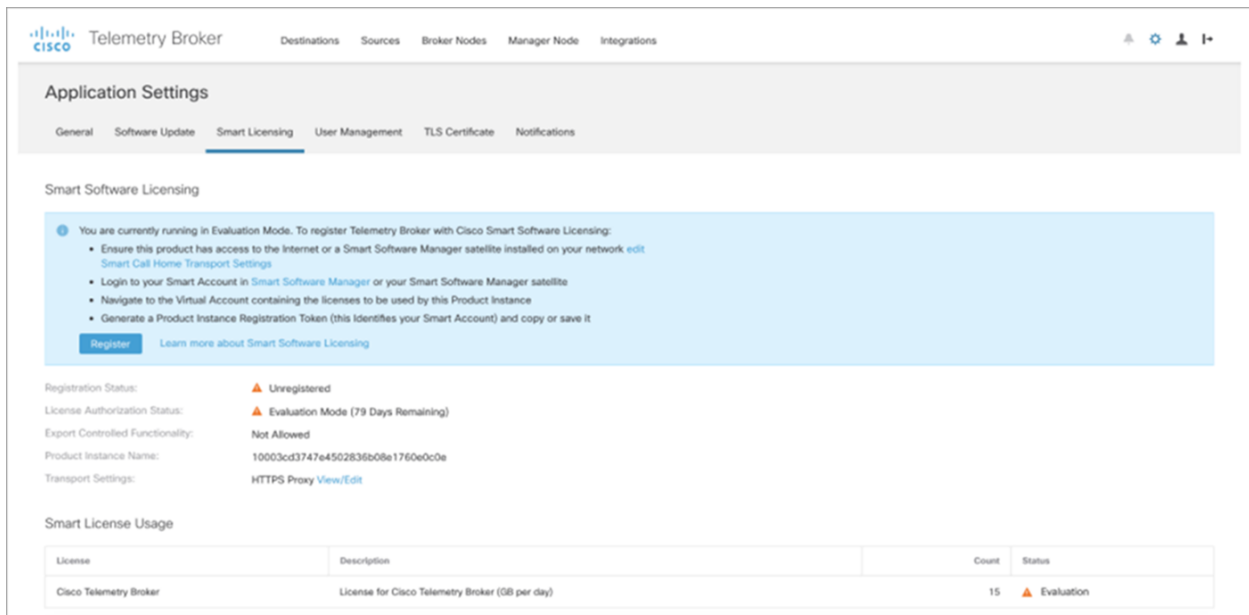
- Confirm you have sufficient licenses assigned to your virtual account. Refer to your [Cisco Smart Account](#) for details.

**i** For Smart Licensing help, refer to [Assistance](#).

# Open Smart Software Licensing in Cisco Telemetry Broker

Use the following instructions to record the product instance name and confirm it is unregistered.

1. Log in to Cisco Telemetry Broker.
2. Click the  (**Global Settings**) icon in the toolbar in the upper right corner of any page and choose **Settings**.
3. Click the **Smart Licensing** tab.



The screenshot shows the Cisco Telemetry Broker interface. At the top, there are navigation tabs: Destinations, Sources, Broker Nodes, Manager Node, and Integrations. Below this is the 'Application Settings' section with sub-tabs: General, Software Update, Smart Licensing (selected), User Management, TLS Certificate, and Notifications.

The 'Smart Software Licensing' section contains a blue information box with the following text:

You are currently running in Evaluation Mode. To register Telemetry Broker with Cisco Smart Software Licensing:

- Ensure this product has access to the Internet or a Smart Software Manager satellite installed on your network [edit Smart Call Home Transport Settings](#)
- Login to your Smart Account in [Smart Software Manager](#) or your Smart Software Manager satellite
- 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

Buttons: [Register](#), [Learn more about Smart Software Licensing](#)

Registration Status: ▲ Unregistered

License Authorization Status: ▲ Evaluation Mode (79 Days Remaining)

Export Controlled Functionality: Not Allowed

Product Instance Name: 10003cd3747e4502836b08e1760e0c0e

Transport Settings: HTTPS Proxy [View/Edit](#)

Smart License Usage

License	Description	Count	Status
Cisco Telemetry Broker	License for Cisco Telemetry Broker (GB per day)	15	<span style="color: orange;">▲</span> Evaluation

4. In the Smart Software Licensing Status section, review **Registration Status**. Confirm it is shown as **Unregistered**.
5. Record the **Product Instance Name**.

You will use the product instance name to reserve licenses and make changes on your Cisco Smart Account.



# Log in to Cisco Telemetry Broker License Reservation

Use the following instructions to open License Reservation in Cisco Telemetry Broker.

1. SSH in to your CTB Manager Node as the **admin** user.
2. Type: `sudo su` to switch to root.
3. Type: `ctb-licensing-reservation-client`

## Using License Reservation

For each process, you will generate codes in the Cisco Telemetry Broker and/or Cisco Smart Account, and you will exchange codes between the two interfaces.

You can copy codes or save them to a file. Make sure you follow the instructions in this guide to generate codes in the correct order.

### Choosing a Menu

To choose a menu in the License Reservation command line interface, type the menu number and press **Enter**.

For example, to type **1** to choose Generate Reservation Request Code.

```
Smart Software Licensing
Confirm License Reservation and Inventory:
Before you request licenses for this product, make sure your account is set up for License Reservation and review the inventory.
- Log in to your Cisco Smart Software Manager. Select Inventory > Licenses, and confirm you see the License Reservation button. If it is not shown, please contact CTB support.
- On the Licenses tab, review the inventory and confirm you have a surplus of licenses available for reservation.
Generate Reservation Request Code:
Use the Reservation Request Code to reserve licenses on your Cisco Smart Software Manager.
Select Generate Reservation Request Code: to proceed.
1. Generate Reservation Request Code
2. Exit
Enter your selection (1,2): 1
```

### Exiting License Reservation

If you exit the session, License Reservation opens to the same page when you log in again.

## Troubleshooting

If your product instance is already registered to your Cisco Smart Account, deregister it to use License Reservation.

# Register your Product Instance

Use the following instructions to register your product instance. If your account is authorized for Specific License Reservation, you will also reserve licenses during the registration process.

## 1. Generate the Reservation Request Code

Use the Reservation Request Code to register your product instance on your Cisco Smart Account.

1. SSH in to your Management node as the **admin** user.
2. Type: `sudo su` to switch to root.
3. Type: `ctb-licensing-reservation-client`
4. Type **1** to choose Generate Reservation Request Code.
5. Copy the code or download the RequestCode.txt file (refer to Saved As).

```
Smart Software Licensing
Reserve Licenses:
A Reservation Request Code has been generated. Use this code to reserve licenses on your
t to your account.
Reservation Request Code: CD-ZCTB:f762103c11e64c15a9944952a584f1b2-AHSffaZJE-83
Saved As:: /var/lib/titan/titanium/licensing/reservation_request_code.txt
After you submit your Reservation Request Code and reserve licenses, return to this page
When you have your Reservation Authorization Code, select an option for installing it:
1. Type Reservation Authorization Code
2. Upload File with Reservation Authorization Code
3. Cancel Reservation Request
4. Exit
Enter your selection (1,2,3,4):
```

## 2. Register and Reserve Licenses

Log in to your Cisco Smart Account to register your product instance using the reservation request code. As part of this procedure, you will generate an authorization code to bring to your CTB Manager Node.

1. Log in to Cisco Software Central at <https://software.cisco.com>.
2. In the License section, click **Smart Software Licensing**.
3. Click **Inventory**.

4. Click the **Licenses** tab.
5. Click **License Reservation**.
6. Paste the Reservation Request Code into the window or click **Browse** to upload the RequestCode.txt file.

**Smart License Reservation** ✕

STEP 1

**Enter Request Code**

STEP 2

Select Licenses

STEP 3

Review and confirm

STEP 4

Authorization Code

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:

To learn how to enter this code, see the configuration guide for the product being licensed

7. Click **Next**. Follow the on-screen prompts to choose your configuration.

**Permanent License Reservation:** No reservations required. Follow the on-screen prompts and [go to the next step](#).

**Reserve a Specific License:** Ensure you reserve sufficient GB/day count for your system. For example, the following image shows a system processing 15 GB/day, in which case the reserve count should be at least 15.

License	Description	Count	Status
Cisco Telemetry Broker	License for Cisco Telemetry Broker (GB per day)	15	▲ Evaluation

8. Click **Generate Authorization Code**.

- You can copy the code to the clipboard or download the file (AuthorizationCode.txt).
- If you download the AuthorizationCode.txt file, upload it to the following directory on your CTB Manager Node:

```
/var/lib/titan/titanium/licensing/
```

### 3. Complete the Registration in Telemetry Broker

1. SSH in to your CTB Manager Node as the **admin** user.
2. Type: `sudo su` to switch to root.
3. Type: `ctb-licensing-reservation-client`
4. Choose which method you will use to add the authorization code to Cisco Telemetry Broker (entering the code or uploading the file).
5. Follow the on-screen prompts for the method you choose.
  - **Entering the Code:** If you choose to enter the code, paste it and press Enter 3 times. Confirm you see the message that the code is being processed.
  - **Uploading the File:** Confirm the file name is `AuthorizationCode.txt` and upload it to the following directory:  
`/lancope/var/services/cm/licensing/`
6. Follow the on-screen prompts for the method you choose.
  - **Type Reservation Authorization Code:** If you choose to enter the code, paste it and press Enter. Confirm you see the message that the code is being processed.
  - **Upload File with Reservation Authorization Code:** Confirm the file name is `AuthorizationCode.txt` and upload it to the following directory:  
`/var/lib/titan/titanium/licensing/`
7. Confirm that your license reservation is completed successfully. Because this is a first time registration, you do not need to bring the Confirmation Code to your account.

```
Smart Software Licensing
License Reservation Completed Successfully
**IMPORTANT**: If you have updated the license reservations for this product instance, update the license usage on your Cisco Smart Software Manager using the Confirmation Code. You can copy this code and pa
r download the file (refer to Saved As) and upload it to your account.
Confirmation Code: 663d0898
Saved As: /var/lib/titan/titanium/licensing/reservation_conf_code.txt
Press enter to exit.
```

### 4. Confirm License Reservation in Cisco Telemetry Broker

1. Open [Smart Licensing](#) in Cisco Telemetry Broker.
2. Review the Smart Software Licensing Status section and confirm:

- **Registration Status:** Registered
- **License Authorization Status:** Authorized - Reserved

**Application Settings**

General   Software Update   **Smart Licensing**   User Management   TLS Certificate   Notifications

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**Smart Software Licensing**

Registration Status: ● Registered - License Reservation (Jun 04, 2021)

License Authorization Status: ● Authorized - Reserved (Jun 04, 2021)

Smart Account:

Virtual Account:

Export Controlled Functionality: **Allowed**

Product Instance Name: **f762103c11e64c15a9944952a584f1b2**

**Smart License Usage**

License	Description	Reserved	In Use	Status
Cisco Telemetry Broker	License for Cisco Telemetry Broker (GB per day)	10	10	<span style="color: green;">●</span> Authorized - Reserved

3. Review the Smart License Usage section. Confirm all licenses are shown as **Authorized - Reserved**.


**Not Authorized:** If any licenses are shown as Not Authorized, you may need to add licenses to your account. Refer to [Troubleshooting Not Authorized](#) for more information.

## Troubleshooting Not Authorized

If any licenses are shown as **Not Authorized**, you may need to add licenses to your account.

Review the following:

- Open Smart Licensing in Cisco Telemetry Broker. Review the [Smart License Usage](#) (refer to image right before step 4) to determine which licenses are not authorized. Refer to the table in step 7 in the Register and Reserve Licenses subsection.
- Confirm you have sufficient licenses assigned to your virtual account. Refer to your [Cisco Smart Account](#) for details.

 For Smart Licensing help, refer to [Assistance](#).

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# Change License Reservations

Use the following instructions to change the quantity of license reservations for your product instance. This procedure involves exchanging codes between your Cisco Smart Account and CTB Manager Node.

**Return Product Instance:** To return all licenses and remove your product instance from the account, refer to [Remove the Product Instance](#).

## 1. Add or Return Licenses

Log in to your Cisco Smart Account to update the license reservation quantity for your product instance.

1. Log in to Cisco Software Central at <https://software.cisco.com>.
2. In the License section, click **Smart Software Licensing**.
3. Click **Inventory**.
4. Click the **Product Instances** tab.
5. Locate your product instance name.

To find your product instance name, refer to [Open Smart Software Licensing in Cisco Telemetry Broker](#).

6. Choose **Actions > Update Reserved Licenses**.
7. Click **Reserve a specific license**.
8. Follow the on-screen prompts to add or remove licenses for your product instance.
9. Click **Generate Authorization Code**.

- You can copy the code to the clipboard or download the file (AuthorizationCode.txt).
- If you download the AuthorizationCode.txt file, upload it to the following directory:

```
/var/lib/titan/titanium/licensing/
```

## 2. Update the Reservation in Telemetry Broker

1. SSH in to your CTB Manager Node as the **admin** user.
2. Type: `sudo su` to switch to root.
3. Type: `ctb-licensing-reservation-client`

#### 4. Type **1** to choose Update Reservation.

```
Smart Software Licensing
Manage Reservations:
This product instance has existing licensing reservations.
To reserve additional licenses (only applicable to SLR, not PLR), select Update Reservation. To return licenses to your Cisco Smart Software Manager, select Return Reservation.
1. Update Reservation
2. Return Reservation
3. Exit
Enter your selection (1,2,3):
```

5. Choose which method you will use to add the authorization code to Cisco Telemetry Broker (entering the code or uploading the file).
6. Follow the on-screen prompts for the method you choose.

- **Entering the Code:** If you choose to enter the code, paste it and press **Enter**. Confirm you see the message that the code is being processed.
- **Uploading the File:** Confirm the file name is AuthorizationCode.txt and upload it from the following directory:  
`/var/lib/titan/titanium/licensing/`

7. Copy the Confirmation Code or download the ConfirmationCode.txt file.

### 3. Enter the Confirmation Code

1. Log in to Cisco Software Central at <https://software.cisco.com>.
  - In the License section, click **Smart Software Licensing**.
  - Click **Inventory**.
  - Click the **Product Instances** tab.

2. Locate your product instance name.

To find your product instance name, refer to [Open Smart Software Licensing in Cisco Telemetry Broker](#).

3. Choose **Actions > Enter Confirmation Code**.
4. Paste the Confirmation Code into the window or click **Browse** to upload the ConfirmationCode.txt file.
5. Click **OK**.

# Change the Product Instance Registration

Use the following instructions to change your product instance registration, as follows:

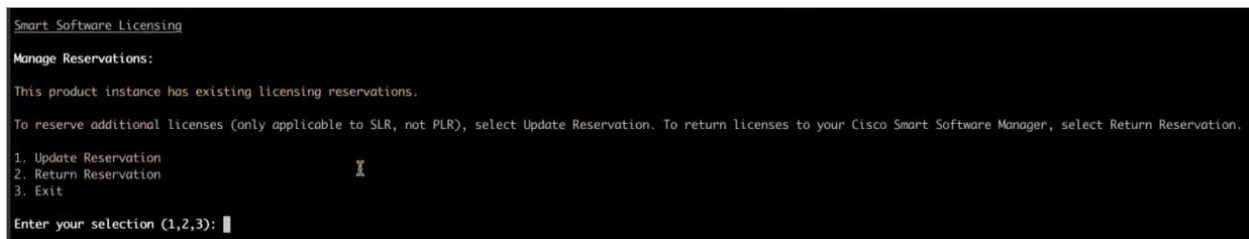
- To remove your product instance from the account, refer to [Remove the Product Instance](#).
- To switch between permanent license reservation and reserving specific licenses, refer to [Change the Reservation Configuration](#).

## Remove the Product Instance

Use the following instructions to remove your product instance from the account. If you remove your product instance, the licenses it was using are returned to the virtual account, and other product instances in your account can use those licenses.

### 1. Generate the Reservation Return Code

1. SSH in to your CTB Manager Node as the **admin** user.
2. Type: `sudo su` to switch to root.
3. Type: `ctb-licensing-reservation-client`
4. Click **2** to choose Return Reservation.



```
Smart Software Licensing
Manage Reservations:
This product instance has existing licensing reservations.
To reserve additional licenses (only applicable to SLR, not PLR), select Update Reservation. To return licenses to your Cisco Smart Software Manager, select Return Reservation.
1. Update Reservation
2. Return Reservation
3. Exit
Enter your selection (1,2,3): 2
```

5. Copy the code or download the ReturnCode.txt file (refer to Saved As).

### 2. Return Licenses to your Account

1. Log in to Cisco Software Central at <https://software.cisco.com>.
2. In the License section, click **Smart Software Licensing**.
3. Click **Inventory**.
4. Click the **Product Instances** tab.
5. Locate your product instance name.



---

To find your product instance name, refer to [Open Smart Software Licensing in Cisco Telemetry Broker](#).

6. Choose **Actions > Remove**.
7. Follow the on-screen prompts to remove your product instance.

## Change the Reservation Configuration

Use the following instructions to switch between permanent license reservation and reserving specific licenses. This procedure involves deregistering your product instance from your account and registering it again to make a new selection.

- **Permanent License Reservation:** no reservations required
- **Reserve a Specific License:** reserve licenses for your product instance



You may need additional authorization to change your configuration. For assistance, log in to your Support Case Manager at <https://mycase.cloudapps.cisco.com/case> and choose **Open New Case > Software Licensing > Security Related Licensing > Administration**.

1. Remove your product instance from the account using the [Remove the Product Instance](#) procedure.
2. Register your product instance using the [Register your Product Instance](#) procedure.

---

# Contact Support

If you need technical support, please do one of the following:

- Contact your local Cisco Telemetry Broker Partner
- Contact Cisco Telemetry Broker Support
- To open a case by web: <http://www.cisco.com/c/en/us/support/index.html>
- To open a case by email: [tac@cisco.com](mailto:tac@cisco.com)
- For phone support: 1-800-553-2447 (U.S.)
- For worldwide support numbers:  
<https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html>

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