



Licenses and Software Updates

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View and Manage Licenses

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View Cisco EPN Manager Licenses

Licenses determine the features you can use (such as the NBI or high availability) and the type and number of devices that Cisco EPN Manager can manage. When you connect to Cisco EPN Manager without logging in, the login page displays a banner that identifies whether the server is running a Lab, 90-Day Trial, or Not For Resale (NFR) license, as explained in the table below. If you have configured Cisco EPN Manager to use SSO (single sign-on), you will have to use this method to view your license details.

For in-depth license information, choose **Administration > Licenses**. Cisco EPN Manager supports the following license types.

License Type	Description
Base License	<p>A base license enables all applications, all device drivers (without device count restrictions), and the MTOSI NBI on the server. If you purchase a time-based licenses, the days remaining are listed next to the license name. Cisco EPN Manager supports the following base licenses:</p> <ul style="list-style-type: none"> • Lab—For lab or staging environments. • 90-Day Trial—For a time-based evaluation period (90 days), after which the product is disabled. <p>This license is displayed in the GUI as Base License.</p>

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License Type	Description
MTOSI NBI	MTOSI NBI—Enables all MTOSI-related APIs and administrative features on the server. If the MTOSI NBI license is time-based, the remaining time is listed next to the license. This license is displayed in the GUI as MTOSI NBI .
Device RTM (Right-to-Manage)	<p>Allows the server to manage a specified number of devices from a specified device type. For RTM licenses, the device count is displayed next to the device type.</p> <ul style="list-style-type: none"> Because manageability for all Cisco NCS devices is included in the device purchase price, Cisco EPN Manager does not require explicit RTM licenses for any of the Cisco NCS devices. Devices that are configured as satellites (for example, Cisco ASR 903 with a Cisco ASR 9000v host) are counted as independent devices. <p>RTM licenses are displayed in the GUI as follows:</p> <ul style="list-style-type: none"> For Cisco devices—Device model, such as NCS 2002 or ASR 9001. For third party devices—Open License.

High availability deployments do not require a special license. The only requirement is to install the appropriate licenses (from the previous table) on the primary server. You do not need to install a duplicate set on the secondary server.

Cisco EPN Manager checks licenses every 4 hours and writes the status to the License log (/opt/CSColumos/logs/license.log). If a time-based license expires, any users that are in an active session will be redirected to the Licenses page, and new users are prevented from logging in. If an RTM license device count is exceeded, you should either:

- Delete some of the devices. After the daily inventory collection, the devices will be displayed as managed.
- Obtain a license with a higher RTM count. See [Add and Delete Licenses](#).

Add and Delete Licenses

To install a new license, the original license must reside on the server. Do not create copies of licenses. To purchase new licenses, point your browser to www.cisco.com/go/license.

When you delete a license, all of that license's information is removed from the server.

**Caution**

If you make a manual change to a license file, it will be considered corrupted and Cisco EPN Manager will not install it. If this happens, obtain a new license file.

Step 1 Choose **Administration > Licenses**.

Step 2 In the **Summary** folder, click **Files**, then click **License Files**.

- To add a license, click **Add**, browse to the location of the license file, and click **OK**.
- To delete a license, select the license file, then click **Delete**.

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Move a License to Another Server

The only time you may have to move a license to another server is if you are using high availability, and a server fails. To move the license:

1. Delete the licenses from the original server.
2. Send an e-mail to licensing@cisco.com requesting a *re-host* for your licenses.
3. When you receive the license, install it on the new server.

If you need to delete a license, see [Add and Delete Licenses](#).

Update the Cisco EPN Manager Software

- [Types of Cisco EPN Manager Software Updates](#)
- [Check the Current Product Software Version](#)
- [Enable or Disable Notifications About Available Software Updates](#)
- [View the Installed Software Updates](#)
- [Download and Install a Software Update from Cisco.com](#)

Types of Cisco EPN Manager Software Updates

Cisco EPN Manager provides the following types of updates:

- Critical Fixes—Resolutions for problems in the Cisco EPN Manager software.
- Technology Packs, which contain:
 - Content Packs—Provides new features that supplement released versions of Cisco EPN Manager.
 - Device Packs—Adds support for new devices.

All software updates are packaged in .ubf files. A large update can contain individual smaller updates, from which you can choose what you want to install. When you install an update, Cisco EPN Manager automatically installs any other updates that are required. If you have connectivity to Cisco.com, download and install the updates directly from Cisco.com. If you do not have internet connectivity, copy the update from a server that has the necessary connectivity.

Check the Current Product Software Version

Use one of these methods to check the Cisco EPN Manager product version.

- From the UI, choose **Help > About Cisco EPN Manager**.
- From the CLI, view the contents of the file named `/opt/CSCOLumosinstalledComponentsVersions.xml`

To use the CLI, see [Establish an SSH Session With the Cisco EPN Manager Server](#).

LIMITED ORDERABILITY RELEASE**Enable or Disable Notifications About Available Software Updates**

By default, Cisco EPN Manager will display information about all available updates in the Software Update page. Because the list can be quite long, you may want to adjust what is displayed and the updates for which you are notified.

To adjust the UI so that only updates you are interested in are displayed:

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- Step 1** Configure the default Cisco.com credentials so that Cisco EPN Manager can get information about available updates by choosing **Administration > Settings > System Settings > Account Settings** and entering the required information.
- Step 2** Choose **Administration > System Settings > Software Update** and deselect the software update types you are *not* interested in. You can reenable your choices at any time.
- Step 3** Click **Save**.
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View the Installed Software Updates

Cisco EPN Manager lists all updates that are installed on the server, including those that are not being used. To view installed software updates, choose **Administration > Settings > System Settings > Software Update**. The following table explains what is displayed on the Software Update page.

Tab	Lists:	Field	Description
Updates	Individual updates that Cisco EPN Manager is actively using	Name	Name of the update that Cisco EPN Manager server is using
		Type	<ul style="list-style-type: none"> • Add-ons—Maintenance releases or content packs • Critical Fix—Software patches for important defects • Technology Pack—Additional feature and device support
		Version	Update version. The first version is always named 1.0.0.
		Status	Installed
Files	Software update files that exist on the server (includes files not being used)	File Name	Name of the software update .ubf file that was downloaded from Cisco.com
		In Use	If any contents of the .ubf file contents are being used by Cisco EPN Manager server
		Corresponding Updates	Prerequisite updates that were also installed.

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Download and Install a Software Update from Cisco.com

Before You Begin

- If the system is using a proxy server, disable the proxy settings (**Administration > System Settings > Proxy Settings**) or the download will fail.
- If Cisco.com credentials have been specified in the System Settings (**Administration > System Settings > Software Update**), make sure you have them in order to connect to Cisco.com.
- If you are uploading a Software Update from another server, make sure you have the file's location.

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- Step 1** Download the software update from Cisco.com. If you do not have a direct connection to Cisco.com, go to the next step.
- a. Choose **Administration > Software Update**.
 - b. Click **Download** (at the top of the page) and log into Cisco.com. Cisco EPN Manager displays all available updates on Cisco.com.
 - c. Select the updates you want to download and click **OK**. If you choose an update that requires other updates, they are auto-selected. The software update is downloaded to the server from Cisco.com.
- Step 2** If you are installing a software update on a server that does not have direct connectivity to Cisco.com, upload the file from a server that has the update. This places the software update in the proper location for installation. Otherwise, proceed to the next step.
- a. Choose **Administration > Software Update**.
 - b. Click **Upload** (at the top of the page), navigate to the .ubf file, and click **OK**. Cisco EPN Manager displays all available software updates that the server.
 - c. Click **Browse**, choose the software update on your local server, and click **OK**. The software update is copied to the proper location on the server.
- Step 3** Select and install all or selected updates in the new software update file.
- a. From the Software Update page (**Administration > Software Update**), expand the software update category (for example, Critical Fixes or Device Support). Cisco EPN Manager lists the individual updates that you can install. If you choose an individual update that requires other individual updates, they are auto-selected.
 - b. For each individual update you want to install, click **Install**.
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