Upgrade Software

This chapter describes the software upgrade in Cisco Optical Site Manager and its related tasks.

Cisco Optical Site Manager Software Package

Table 1: Feature History

Feature Name	Release Information	Description
SSH Upgrade	Cisco IOS XR Release 25.1.1	The Cisco Optical Site Manager software package now includes integrated SSH libraries. When you upgrade to Release 25.1.1, these libraries are automatically incorporated into the NCS 2000 Cisco Optical Site Manager software package. This upgrade provides new packages for these SSH libraries, enhancing security and addressing additional vulnerabilities.

The software package is distributed as a single file that is downloaded to the local file system of Cisco Optical Site Manager and it contains all the required packages for upgrading the system. The single file image is different depending on the Cisco Optical Site Manager installation type: Cisco Optical Site Manager line card (ISO image file).

ISO line card image consists of the following:

- NCS 1000 image

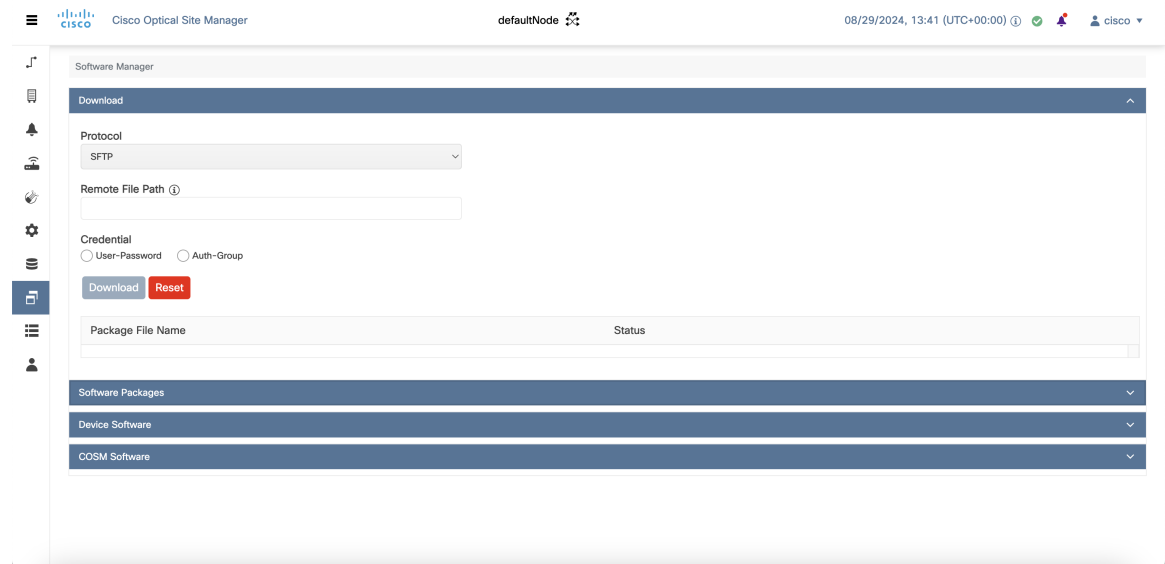- Cisco Optical Site Manager Software application

Workflow for Software Upgrade

You can upgrade NCS 1000 device and Cisco Optical Site Manager application software using the Software Manager.

Perform these tasks to upgrade software NCS 1000 device and Cisco Optical Site Manager application software.

1. **Download Software Package** : Download the necessary packages from the Cisco repository to the Cisco Optical Site Manager card. For more details, see Download Software Package on Cisco Optical Site Manager Card, on page 2. The downloaded packages appear in the **Software Packages** tab.

2. **Download Software Package to Device**: Download the software package from Cisco Optical Site Manager card to the NCS 1000 device. For more details, see Download Software Package on Device, on page 3.

3. **Activate Device Software**: Activate the device software. For more details, see Activate NCS 1000 and NCS 2000 Device Sofware , on page 4.

Figure 1: Software Upgrade

Download Software Package on Cisco Optical Site Manager Card

Use this task to download the Cisco Optical Site Manager software package.

Before you begin

Log into Cisco Optical Site Manager

Procedure

Step 1	Click **Software Manager** from the left panel.
Step 2	Click the **Download** tab.
Step 3	Select SFTP from the **Protocol** drop-down list.
Step 4	Enter the path of the software package file in the **Remote File Path** field.
Step 5	Choose to enter the credentials either through **User-Password** or **Auth-Group**.

- If you choose **User-Password**, enter the **Username** and **Password** in the given fields.
- If you choose **Auth-Group**, choose the authentication group from the **Auth Group** drop-down list.

Step 6	Click **Download** to download the software package.

The download status is displayed in the **Status** column.

Step 7	Click the **Refresh** icon in the **Software Packages** section.

The downloaded software package ID is displayed in the **Software Packages** list in the increasing order of their release.

What to do next

Download Software Package on Device

Use this task to download the software package from the Cisco Optical Site Manager card to NCS 1000 device.

Before you begin

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Procedure

Step 1	Click **Software Manager** from the left panel.
Step 2	Click the **Device Software** section.
	The following describes the fields displayed in the on the **Device Software** section:

Table 2: Device Software Fields

Field	Description
Name	Displays the IP address of the device.
Component	Displays the platform component name.
App Status	Displays the status of the Cisco Optical Site Manager application on the device. • *Active*: Cisco Optical Site Manager is currently active on the device. • *Standby*: Cisco Optical Site Manager is in standby mode on the device. If the *Active* application fails, this application takes over.
Working SW Version	Displays the currently active software version on the device.
Status	Displays the progress of the download.

Step 3   Select the check boxes for one or more devices to download the new software.

> **Note**
> The **Device Software** tab lists the NCS 1000, cosm-primary, and cosm-secondary devices. Only the NCS 1000 IOS XR software package can be downloaded.

Step 4   Click **Download**.

The **Select Software Image** dialog box appears.

Step 5   Select the software package from the **Software Image** drop-down list.

Step 6   Click **Download**.

The **Status** column displays the download progress.

Step 7   (Optional) Click the **Terminate Download** button to terminate the software downloading on the selected device.

What to do next

Activate NCS 1000 and NCS 2000 Device Sofware

Use this task to activate the NCS 1000 and NCS 2000 device software package.

Before you begin

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Procedure

Step 1	Click **Software Manager** from the left panel.
Step 2	Click the **Device Software** section.
Step 3	Select the NCS 1000 or NCS 2000 device for which you want to activate the software, and click **Activate**.
Step 4	(For NCS 1000 device) Select the ISO from to be activated.

Note
If the device hosting the Cisco Optical Site Manager application is activated, manageability is temporarily lost while the new device image is loaded and the updated Cisco Optical Site Manager application restarts.

Caution
Do not install a base ISO without Cisco Optical Site Manager component on the device that already has Cisco Optical Site Manager. This will remove the Cisco Optical Site Manager application and leave the device in an inconsistent state.

Activate Cisco Optical Site Manager and Admin Plane Image for the SVO-LC

Use this task to upgrade OS, activate Cisco Optical Site Manager and Admin Plane image for the SVO-LC.

Before you begin

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Procedure

Step 1	Click **Software Manager** from the left panel.
Step 2	Click the **Device Software** section.
Step 3	Select the **CardController** or **OS** component to be activated, and click **Activate**.

Note
The activation for the **CardController** and **OS** components is only applicable to SVO-LC. If both SVO-LC cards are present (local HA configuration), you must update the **OS** component on both cards. An error occurs if you select only the **Active** card for the update.

Caution

As the SVO-LC host multiple Cisco Optical Site Manager applications, the OS upgrade affects all active instances on the card being upgraded, temporarily resulting in a loss of manageability.

Step 4 To activate the Cisco Optical Site Manager and Cisco Optical Site Manager Admin Plane instance, perform these steps in the **Software** and **Admin Plane Software** sections.

a) Click the **Activate** button.
The **Software Image Activation** dialog box is displayed.

b) Select the software image you want to activate from the drop-down list and click **Activate**.

Note
It is recommended to activate the **Administrative Plane Software** first, before activating other components in the system.

Delete Software Package

Use this task to delete the software package on the Cisco Optical Site Manager card or application.

Before you begin

Log into Cisco Optical Site Manager

Procedure

Step 1 Click **Software Manager** from the left panel.

Step 2 Click to expand the **Software Packages** section.

A list of package names and their corresponding software versions is displayed.

Step 3 Select the checkbox corresponding to the *SW Package ID* of the Cisco Optical Site Manager package you want to delete.

Step 4 Click **Delete**.

A confirmation message appears.

Step 5 Click **Ok**.