Upgrade Software

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

Cisco Optical Site Manager Software Package

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
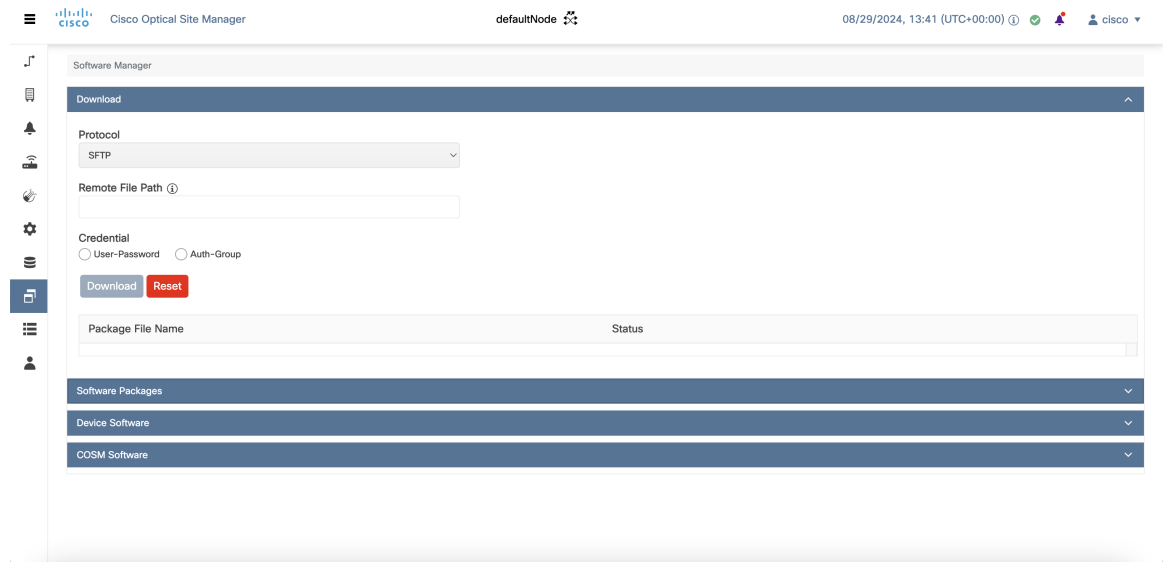
Workflow for Software Upgrade

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 Device Software, 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 1: 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 box corresponding to the device for which you want 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.

| Note | When upgrading the software for the Cisco Optical Site Manager High Availability devices , select and upgrade all devices listed under **Device Software**. |

What to do next

Activate Device Software

Use this task to activate the NCS 1000 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 device for which you want to activate the software, and click **Activate**.

Step 4   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 COSM. This will remove the Cisco Optical Site Manager application and leave the device in an inconsistent state. |

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**.