



# Upgrade Software

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

- [Cisco Optical Site Manager software packages, on page 1](#)
- [Workflow for Software Upgrade, on page 2](#)
- [Download ISO line card image, on page 2](#)
- [Download Software Package on Device, on page 3](#)
- [Activate NCS 1000 device software, on page 4](#)
- [Delete software package, on page 4](#)

## Cisco Optical Site Manager software packages

Table 1: Feature History

Feature Name	Release Information	Description
SSH Upgrade	Cisco IOS XR Release 25.1.1	<p>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.</p> <p>This upgrade provides new packages for these SSH libraries, enhancing security and addressing additional vulnerabilities.</p>

In Cisco Optical Site Manager, software package distribution is:

- Distributed as a single file containing all necessary components for system upgrades.
- Format of the file depends on the Cisco Optical Site Manager installation type.
- For line card installations, the package is provided as an ISO image file.

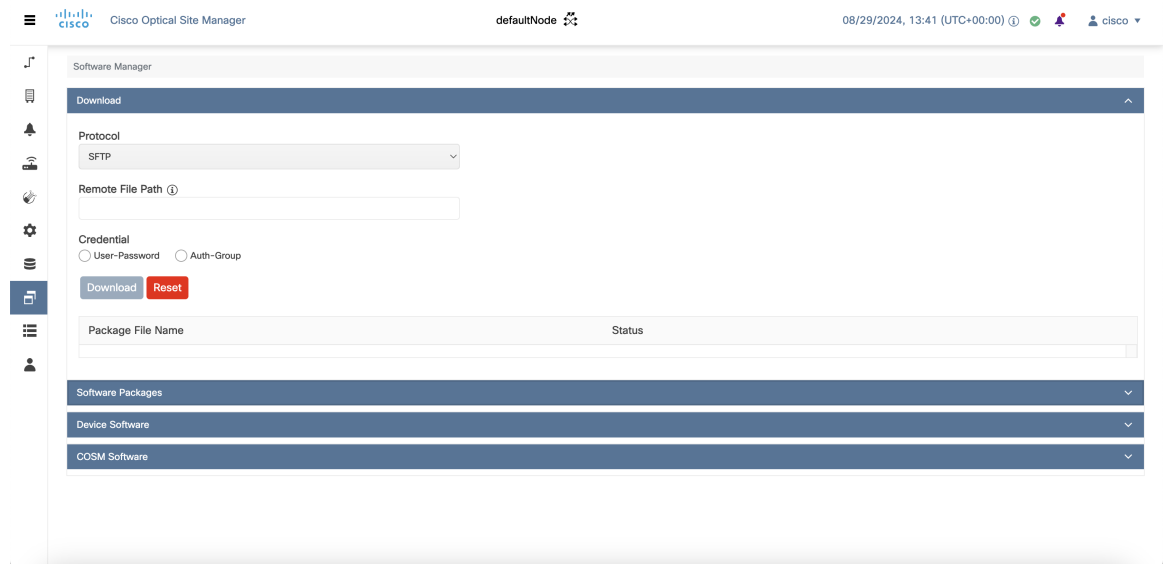
# Workflow for Software Upgrade

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 ISO line card image, 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 device software, on page 4](#).

**Figure 1: Software Upgrade**



## Download ISO line card image

Before

Download the necessary ISO line card image from the Cisco repository to the Cisco Optical Site Manager card.

Follow these steps to download the ISO line card image.

### Before you begin

[Log into Cisco Optical Site Manager](#)

## Procedure

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- 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.
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The software package is downloaded and listed in the **Software Packages** section.

# Download Software Package on Device

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## Before you begin

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## Procedure

### Example:

*Table 2:*

If..	Then..

*Table 3:*

When..	And..	Then..	And..

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Figure 2:

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### Example

### What to do next

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## Activate NCS 1000 device software

Activate the Cisco Optical Site Manager software immediately after downloading it to ensure proper operation.

Follow these steps to activate the NCS 1000 device software package.

### Before you begin

[Log into Cisco Optical Site Manager](#)

### Procedure

- Step 1** Click **Software Manager**.
- Step 2** Click the **Device Software** section.
- Step 3** Select the NCS 1000 device for which you want to activate the software, then click **Activate**.
- Step 4** For the NCS 1000 device, select the ISO 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.

The selected software is activated.

## Delete software package

[Log into Cisco Optical Site Manager](#)

Follow these steps to delete the software package on the Cisco Optical Site Manager card or application.

## Procedure

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- 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**.
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The selected software package is deleted.

