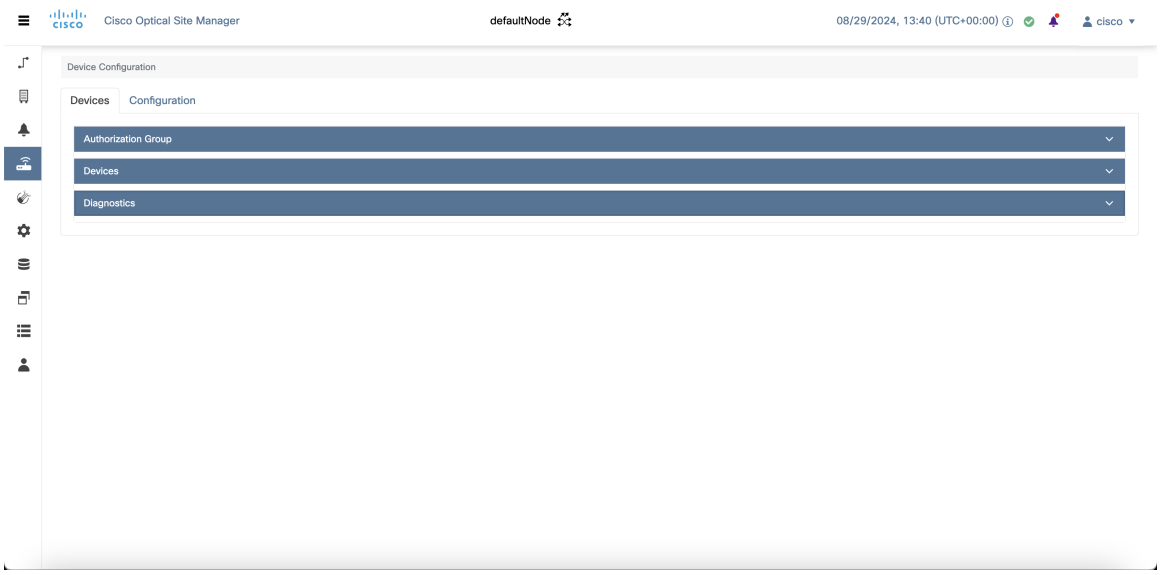
Configure Devices

This chapter describes the tasks related to device configuration in Cisco Optical Site Manager.

Figure 1: Configure Devices



Manage authorization groups

Authorization groups are used to manage user and group attributes for authentication and authorization processes.

Follow these steps to create, edit, or delete authorization groups for devices.

Before you begin

Log into Cisco Optical Site Manager

Procedure

Step 1 Click **Devices** in the left panel.
The *Device Configuration* page appears.

Step 2 In the **Devices** section, click the **Authorization Group** section to expand it.

The table lists all the available groups.

Step 3 Perform these steps, as needed:

To	perform these steps
Create a new authorization group	**a.** Click the **Add Auth Group** button. The **Add Authorization Group** dialog box appears. **b.** Enter the **Auth Group Name**, **Remote User Name**, and **Remote Password** in their respective fields. **c.** Click **Add**. The new auth group is added to the table.
Edit an authorization group	**a.** Click the **Add Auth Group** button. The **Add Authorization Group** dialog box appears. **b.** Enter the **Auth Group Name**, **Remote User Name**, and **Remote Password** in their respective fields. **c.** Click **Add**. The authorization group is added to the table.
Delete an authorization group	**a.** Select the check box next to the authorization group you want to edit. **b.** Click the **Delete Auth Group** button. A confirmation message appears. **c.** Click **OK**. The authorization group is deleted from the table.

Add a device

Cisco Optical Site Manager automatically detects and onboards directly connected peer devices on the network. However, if you've added a new device after configuring Cisco Optical Site Manager, you can manually add the device for management using the application.

Figure 2: Add a Device

Follow these steps to add an NCS 1000 or NCS 2000 device to Cisco Optical Site Manager.

Before you begin

Log into Cisco Optical Site Manager

Procedure

Step 1 Click **Devices** in the left panel.
The *Device Configuration* page appears.

Step 2 In the **Devices** tab, click the **Devices** section to expand it.

A table appears that lists all the devices that are configured.

Step 3 Click the **Add Device** icon.
The **Add Device** dialog box appears.

Step 4 Select the **Device Type** from the drop-down list.

Select	to
ncs1000	add a NCS 1000 device.
ncs2000	add a NCS 2000 device.
unmanaged-network-element	add a device that is not actively managed by NCS 1000 or NCS 2000.

Step 5 Enter the **Netconf Port**.

Note
This field is displayed only if *ncs1000* is selected in the **Device Type** drop-down list.

Step 6 Enter the **Device Name** and **IP Address**.

Step 7 Enter the **UID**.

Note
This field is displayed only if *ncs1000* or *ncs2000* is selected in the **Device Type** drop-down list.

Step 8 Select an authorization group from the **Auth Group** drop-down list.

Step 9 Click **Add**.

The device is added to Cisco Optical Site Manager and displayed in the **Devices** section.

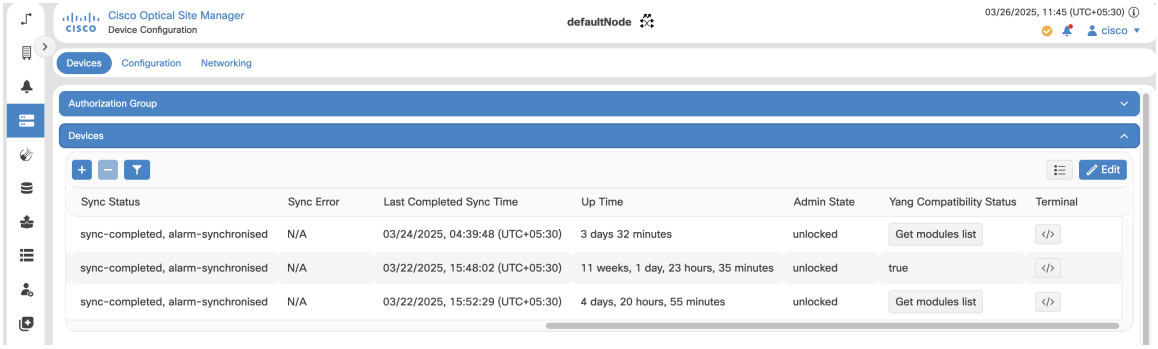
Manage a device using IOS XR CLI

Table 1: Feature History

Feature Name	Release Information	Description
Direct CLI Access for Managed Devices	Cisco IOS XR Release 25.1.1	You can now directly access the Cisco IOS XR CLI for managed devices from the **Devices** section.

Cisco Optical Site Manager provides direct access to the Cisco IOS XR CLI for managed devices through the **Devices** section.

Figure 3: Manage a Device Using IOS XR CLI



Follow these steps to access and manage the device using the IOS XR CLI interface.

Before you begin

Log into Cisco Optical Site Manager

Procedure

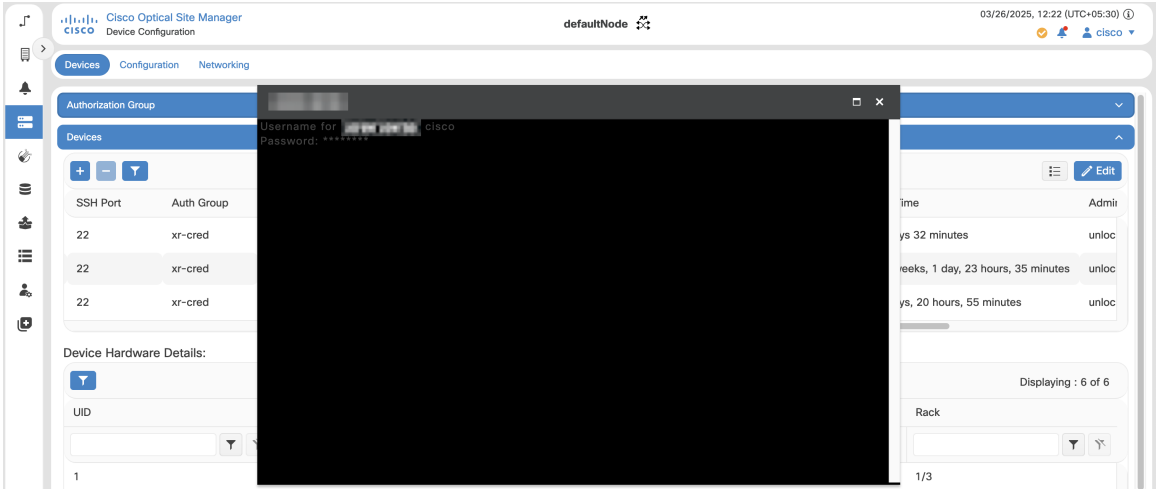
Step 1 Click **Devices** in the left panel.
The *Device Configuration* page appears.

Step 2 In the **Devices** tab, click the **Devices** section to expand it.

A table appears that lists all the devices that are configured.

Step 3 Click the terminal icon next to the device under the **Terminal** column.

The terminal window is displayed, and the system prompts you to enter the username.



Step 4 Type the username and press **Enter**.
The system prompts you to enter the password.

Step 5 Type the password and press **Enter**.

Add unmanaged devices

Table 2: Feature History

Feature Name	Release Information	Description
Add Unmanaged Devices	Cisco IOS XR Release 24.3.1	The **Add Device** dialog box now includes the **unmanaged-network-element** option, allowing the addition of unmanaged devices. This enhancement allows you to add and configure passive devices on the network.

Unmanaged devices are those not actively managed by NCS 1000 or NCS 2000. Add an unmanaged device to Cisco Optical Site Manager. Examples include switches, LAN controllers, and passive optical devices.

Follow these steps to add an unmanaged device.

Before you begin

Log into Cisco Optical Site Manager

Procedure

Step 1 Click **Devices** in the left panel.

The *Device Configuration* page appears.

Step 2 In the **Devices** tab, click the **Devices** section to expand it.

The table lists all the configured devices.

Step 3 Click the **Add Device** icon.
The **Add Device** dialog box appears.

Step 4 In the **Add Device** dialog box, perform these steps.

a) Select **unmanaged-network-element** from the **Device Type** drop-down list.
b) Click **Add**.
The new device is added to Cisco Optical Site Manager and displayed in the **Devices** section.

Step 5 In the rack view, perform these steps.

a) Right-click an empty rack unit and select **Add a Passive Unit**
The **Add Passive Unit in Ru Position** dialog box is displayed.
b) Select the unmanaged device from the **Select Device** drop-down list.
c) Select the passive type, slot and passive UID from the respective drop-down lists.
d) Click **Provision**.

A confirmation message is displayed.

Step 6 Click **OK**.

The device is added to Cisco Optical Site Manager and displayed in the **Devices** section.

Delete devices

Delete devices that are no longer used in the network.

Follow these steps to delete an NCS 1000, NCS 2000, passive device, or an external controller.

Before you begin

Log into Cisco Optical Site Manager

Procedure

Step 1 Click **Devices** in the left panel.
The *Device Configuration* page appears.

Step 2 Click the **Devices** section to expand it.

The table lists all the configured devices.

Step 3 Select the check box next to the devices you want to delete.

Step 4 Click the **Delete Device(s)** button to delete the selected devices.
A confirmation message appears.

Step 5 Click **Yes**.

Retrieve device diagnostics

Retrieve, download, and review diagnostics on the Diagnostics page.

Follow these steps to retrieve and download the device diagnostics:

Before you begin

Log into Cisco Optical Site Manager

Procedure

Step 1 Click **Devices** in the left panel.

Step 2 In the **Devices** tab, click the **Diagnostics** section to expand it.

The configured devices are listed in a table.

Step 3 Select the **Node Diagnostics** check box next to the device for which you want to retrieve the diagnostics.

Step 4 Click **Retrieve**.

A confirmation message appears.

Step 5 Click **Yes** to proceed.

A **Request Accepted** message appears.

Step 6 Click **OK**.

A message appears when the diagnostic action is completed.

Step 7 Select the check box next to the device for which you want to download the diagnostics and click **Download**.

The system downloads a zip file containing the logs.

The downloaded ZIP file contains diagnostic logs, which can be reviewed for troubleshooting, performance monitoring, or compliance purposes.