



Managing Devices

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Adding a Node Name

Adding user-friendly node names helps you to identify nodes in the topology diagram.

Step 1 On the menu bar, choose **Devices**, and then click the **Nodes Learned** tab.

Step 2 Click the link for the node that you want to rename in the **Node Name** column.

Step 3 In the **Update Node Information** dialog box, complete the following fields:

Name	Description
Node ID field	The unique identifier for a network element, such as an OpenFlow switch.
Node Name field	<p>The name that you want to assign to the node.</p> <p>The name can contain between 1 and 256 alphanumeric characters including the following special characters: underscore ("_"), hyphen ("-"), plus ("+"), equals ("="), open parenthesis ("("), closed parenthesis (")"), vertical bar (" "), period ("."), or at sign ("@").</p>
Tier drop-down list	<p>Choose the tier property for the network element. This can be one of the following:</p> <ul style="list-style-type: none"> • Unknown • Access • Distribution • Core
Operation Mode drop-down list	<p>Choose how the traffic is handled based on the flows. This can be one of the following:</p> <ul style="list-style-type: none"> • Allow reactive forwarding—No default flows are programmed. How traffic that does not match a flow is treated depends upon the switch implementation. • Proactive forwarding only—The following default flows are programmed on the switch: <ul style="list-style-type: none"> ◦ Punt Address Resolution Protocol (ARP) packets. ◦ Punt Link Layer Discovery Protocol (LLDP) packets. ◦ Drop all other traffic.

Step 4 Click **Save**.

Viewing Expanded Nodes Information

Step 1 On the menu bar, choose **Devices**, and then click the **Nodes Learned** tab.

Step 2 Click the icon in the top right corner.

Step 3 The **Nodes Learned** dialog box displays these nonconfigurable fields:

Name	Description
Node Name field	The name assigned to the node.
Node ID field	The ID of the node.
Tier Name field	The tier that you selected for the node.
MAC Address field	The MAC address of the node.
Ports field	The ports accessible on the node.

Step 4 Click the X in the upper right corner of the dialog box to close it.

Viewing the Ports List

Step 1 On the menu bar, choose **Devices**, and then click the **Nodes Learned** tab.

Step 2 Click the **Ports** link for a node.

Step 3 The **Ports List** dialog box displays all of the ports for the specified node.

Step 4 Click the X in the upper right corner of the dialog box to close it.

Adding onePK Devices

Step 1 On the menu bar, choose **Devices**, and then click the **onePK** tab.

Step 2 Click **Add onePK Device**.

Step 3 In the **Add onePK Device** dialog box, complete the following fields:

Name	Description
Address field	The IP address assigned to the Cisco onePK device.
Username field	The name of the user assigned to the device. Note The username that the admin enters in order to connect to the Cisco onePK agent.
Password field	The password of the user assigned to the device. Note This is the password that the admin enters in order to connect to the Cisco onePK agent.

Step 4 Click **Add onePK Device**.

The node configuration is added. When a physical device is associated with the address that you entered, a success message is displayed. The address is displayed in blue in the **Network Element Address** list of **onePK Devices** on the **onePK** tab.

When there is no physical device associated with the address that you entered, no connection is made, and a connection timed out error message is displayed. The address is grayed out in the **Network Element Address** list of **onePK Devices** on the **onePK** tab.

Removing onePK Devices

Step 1 On the menu bar, choose **Devices**, and then click the **onePK** tab.

Step 2 In the **onePK Devices** list, check the check box next to each device that you want to remove, or check the top check box to remove all onePK Devices.

Step 3 Click **Remove onePK Device**.

Step 4 In the **Remove onePK Device** confirmation dialog box, click **Remove onePK Device**.

Adding a Node Group

A node group allows you to visually group nodes in the Cisco Extensible Network Controller (XNC) topology diagram. Node groups do not create links between nodes.

Step 1 On the menu bar, choose **Devices**, and then click the **Device Groups** tab.

Step 2 Click **Add Group**.

Step 3 In the **Add Node Group** dialog box, complete the following field:

Name	Description
Name field	<p>The name that you want to give the node group.</p> <p>The name can contain between 1 and 256 alphanumeric characters including the following special characters: underscore (" _ "), hyphen (" - "), plus (" + "), equals (" = "), open parenthesis (" ("), closed parenthesis (") "), vertical bar (" "), period (" . "), or at sign (" @ ").</p>

Step 4 Click **Add Group**.

The name of the group displays in the list of node groups.

What to Do Next

Add nodes to the node group.

Adding Nodes to a Node Group

Adding nodes to a node group visually associates the nodes with the node group in the topology diagram. Node groups are highlighted in different colors in the diagram.



Note

If you add a node that already belongs to a node group to a new node group, it is automatically removed from the first node group and added to the new node group.

Before You Begin

Add a node group.

Step 1 On the menu bar, choose **Devices**, and then click the **Device Groups** tab.

Step 2 Click the name of the node group to which to want to add nodes in the **Node Groups** list.

Step 3 Add nodes to the group by doing one of the following:

- Click one or more nodes in the topology diagram, and then click **Add to group <group name>** in the topology diagram.
 - Click the **Nodes in Group** tab, and then do the following:
 - a) In the **Add Nodes to Group - <group name>** dialog box, choose one or more nodes from the drop-down list.
 - b) Click **Add to group**.The nodes display in the **Nodes in Group - <group name>** list on the **Nodes in Group** tab, and in the node group in the topology diagram.
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Removing Nodes from a Node Group

Before You Begin

Add nodes to a node group.

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- Step 1** On the menu bar, choose **Devices**, and then click the **Device Groups** tab.
- Step 2** Click the name of the node group from which to want to remove nodes in the **Nodes Groups** list.
- Step 3** To remove nodes from the group, do one of the following:
- Click a node group in the topology diagram, and then:
 - a) Click the node you want to remove from the group.
 - b) Click **Remove from group – <group-name>** in the topology diagram.
 - Click the **Nodes in Group** tab, and then:
 - a) Check the check box next to the node or nodes you want to remove in the list of **Nodes in Group <group name>**, or check the top check box in the list to select all nodes in the group for removal.
 - b) Click **Remove Nodes from <group-name>** .
- Step 4** In the **Remove Nodes** confirmation dialog box, click **Remove**.
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Removing a Node Group

Removing a node group disassociates the nodes added to it from the node group, and the node group is no longer displayed in the topology diagram.

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- Step 1** On the menu bar, choose **Devices**, and then click the **Device Groups** tab.
- Step 2** In the **Node Groups** list, check the check box next to the name of the node group you want to remove, or check the top check box to select all node groups for removal.
- Step 3** Click **Remove Group**.
- Step 4** In the **Remove Group** confirmation dialog box, click **Remove Group**.
The node group is removed and no longer displays in the topology diagram.
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Adding a Static Route

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- Step 1** On the menu bar, choose **Devices**, and then click the **Static Route Configuration** tab.
- Step 2** Click **Add Static Route**.
- Step 3** In the **Add Static Route** dialog box, complete the following fields:

Name	Description
Name field	The name that you want to assign to the static route. The name can contain between 1 and 256 alphanumeric characters including the following special characters: underscore ("_"), hyphen ("-"), plus ("+"), equals ("="), open parenthesis ("("), closed parenthesis (")"), vertical bar (" "), period ("."), or at sign ("@").
Static Route field	The IP address of the destination and subnet mask in the following format: <i>Destination_IP_Address/Subnet_Mask</i>
Next Hop field	The IP address of the next-hop device.

- Step 4** Click **Save**.
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Removing a Static Route

Before You Begin

Add one or more static routes.

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- Step 1** On the menu bar, choose **Devices** and then click the **Static Route Configuration** tab.
- Step 2** Check the check box next to the name of each static route that you want to remove, or check the top check box to select all static routes for removal.
- Step 3** Click **Remove Static Route**.
- Step 4** In the **Remove Static Route** confirmation dialog box, click **Remove Static Route**.
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Adding a Gateway IP Address

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- Step 1** On the menu bar, choose **Devices**, and then click the **Subnet Gateway Configuration** tab.
- Step 2** Click **Add Gateway IP Address**.
- Step 3** In the **Add Gateway IP Address** dialog box, complete the following fields:

Name	Description
Name field	The name that you want to assign to the gateway IP address. The name can contain between 1 and 256 alphanumeric characters including the following special characters: underscore ("_"), hyphen ("-"), plus ("+"), equals ("="), open parenthesis ("("), closed parenthesis (")"), vertical bar (" "), period ("."), or at sign ("@").
Gateway IP Address/Mask field	The IP address and subnet mask of the default gateway in the following format: <i>IP_Address/Subnet_Mask</i> Note <ul style="list-style-type: none"> • If your deployment includes only OpenFlow traffic, the gateway IP address can be set to the same IP address used as the default gateway for the host systems on that subnet. • If your deployment includes OpenFlow and non-OpenFlow traffic, the gateway IP address must be set to an unused IP address on that subnet.

- Step 4** Click **Save**.
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Removing a Gateway IP Address

Before You Begin

Add one or more gateway IP addresses.

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- Step 1** On the menu bar, choose **Devices**, and then click the **Subnet Gateway Configuration** tab.
- Step 2** Check the check box next to the name of each gateway IP address you want to remove, or check the top check box to remove all gateway IP address entries.
- Step 3** Click **Remove Gateway IP Address**.
- Step 4** In the **Remove Gateway IP Address** confirmation dialog box, click **Remove Gateway IP Address**.
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Adding Ports

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- Step 1** On the menu bar, choose **Devices**, and then click the **Subnet Gateway Configuration** tab.
- Step 2** Click **Add Ports**.
- Step 3** In the **Add Ports** dialog box, complete the following fields:

Name	Description
Gateway Name drop-down list	The name of the gateway address to which you want to bind the port.
Node ID drop-down list	The node that contains the port that you want to bind to the gateway address.
Select Port drop-down list	The port that you want to bind to the gateway address.

- Step 4** Click **Save**.
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Adding a SPAN Port

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- Step 1** On the menu bar, choose **Devices**, then click the **SPAN Port Configuration** tab.
- Step 2** Click **Add SPAN Port**.
- Step 3** In the **Add SPAN Port** dialog box, complete the following fields:

Name	Description
Node drop-down list	Choose the node where you want to create a SPAN port.
Input Port drop-down list	Choose the input port to use for the SPAN port.

Step 4 Click **Save**.

Removing a SPAN Port

Before You Begin

Add one or more SPAN ports.

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- Step 1** On the menu bar, choose **Devices**, and then click the **SPAN Port Configuration** tab.
- Step 2** Check the check box next to each entry in the **Node** and **SPAN Port** list that you want to remove, or check the check box at the top of the list to choose all SPAN ports for removal.
- Step 3** Click **Remove SPAN Port**.
- Step 4** In the **Remove SPAN Port** confirmation dialog box, click **Remove SPAN Port**.
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