

## Configuring CoS Interfaces (NSM Procedure)

An interface is configured for optimal performance in a high-traffic network. This feature enables you to configure interface-specific CoS properties for incoming packets.

To configure CoS interfaces in NSM:

1. In the navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device for which you want to configure CoS interfaces.
3. Click the **Configuration** tab. In the configuration tree, expand **Class of Service**.
4. Select **Interfaces**.
5. Add or modify the interfaces as specified in Table 1.
6. Click one:
  - OK—Saves the changes.
  - Cancel—Cancels the modifications.



**NOTE:** After you make changes to a device configuration, you must push that updated device configuration to the physical security device for those changes to take effect. You can update multiple devices at one time. See the *Network and Security Manager Administration Guide* for more information.

**Table 1: Interfaces Configuration Fields**

Option	Function	Your Action
Interface		
Name	Specifies the interface name.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface</b>.</li><li>2. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li><li>3. Enter the interface name in the Name box.</li></ol>
Comment	Specifies the comment for the interface.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface</b>.</li><li>2. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li><li>3. Enter the comment for the interface in the Comment box.</li></ol>

**Table 1: Interfaces Configuration Fields** (continued)

Option	Function	Your Action
Scheduler Map	Specifies the scheduler configuration mapped to the forwarding class.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface</b>.</li><li>2. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li><li>3. Select the scheduler map from the list.</li></ol>
Scheduler Map Chassis	Specifies the scheduler configuration mapped to the forwarding class for the particular chassis in the chassis queue.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface</b>.</li><li>2. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li><li>3. Select the scheduler map chassis from the list.</li></ol>
Input Traffic Control Profile	Applies an input traffic scheduling and shaping profile to the logical interface.	<ol style="list-style-type: none"><li>1. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li><li>2. Expand the <b>Interface</b> tree and select <b>Input Traffic Control Profile</b>.</li><li>3. Specify the comment and the profile name.</li><li>4. Click <b>Ok</b>.</li></ol>
Input Traffic Control Profile Remaining	Applies an input traffic scheduling and shaping profile for remaining traffic to the logical interface .	<ol style="list-style-type: none"><li>1. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li><li>2. Expand the <b>Interface</b> tree and select <b>Input Traffic Control Profile Remaining</b>.</li><li>3. Specify a comment and a profile name.</li><li>4. Click <b>Ok</b>.</li></ol>
Output Traffic Control Profile	Applies an output traffic scheduling and shaping profile to the logical interface.	<ol style="list-style-type: none"><li>1. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li><li>2. Expand the <b>Interface</b> tree and select <b>Output Traffic Control Profile</b>.</li><li>3. Specify a comment and a profile name.</li><li>4. Click <b>Ok</b>.</li></ol>

**Table 1: Interfaces Configuration Fields** (continued)

Option	Function	Your Action
Output Traffic Control Profile Remaining	Applies an output traffic scheduling and shaping profile for remaining traffic to the logical interface.	<ol style="list-style-type: none"> <li>1. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li> <li>2. Expand the <b>Interface</b> tree and select <b>Output Traffic Control Profile Remaining</b>.</li> <li>3. Specify a comment and a profile name.</li> <li>4. Click <b>Ok</b>.</li> </ol>
Shaping Rate	Shapes the output of the physical interface, so that the interface transmits less traffic than it is physically capable of carrying.	<ol style="list-style-type: none"> <li>1. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li> <li>2. Expand <b>Interface</b> tree and select <b>Shaping Rate</b>.</li> <li>3. Specify the comment and the rate</li> <li>4. Click <b>Ok</b>.</li> </ol>
Unit	Sets the units that need to be allocated to the specific forwarding class and scheduling map.	<ol style="list-style-type: none"> <li>1. Click the <b>New</b> button or select an interface and click the <b>Edit</b> button in Interface.</li> <li>2. Expand <b>Interface</b> tree and select <b>Unit</b>.</li> <li>3. Specify the Unit, Classifiers, Output Traffic Control Profile and Shaping Rate.</li> <li>4. Click <b>Ok</b>.</li> </ol>
Interface Set		
Name	Specifies the interface set name.	<ol style="list-style-type: none"> <li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li> <li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li> <li>3. Select the name from the list.</li> </ol>
Comment	Specifies the comment for the interface.	<ol style="list-style-type: none"> <li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li> <li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li> <li>3. Enter the comment.</li> </ol>

**Table 1: Interfaces Configuration Fields** (continued)

Option	Function	Your Action
Internal Node	Sets the scheduler node as internal, allowing resource scheduling to be applied equally to interface sets that include child nodes and those that do not include child nodes.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li><li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li><li>3. Set the internal node.</li></ol>
Excess Bandwidth Share	Sets the excess bandwidth sharing value.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li><li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li><li>3. Expand interface—set tree and select <b>Excess Bandwidth Share</b>.</li><li>4. Specify the comment and proportion.</li><li>5. Click <b>Ok</b>.</li></ol>
Input Excess Bandwidth Share	Sets the excess input bandwidth sharing value.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li><li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li><li>3. Expand interface—set tree and select <b>Input Excess Bandwidth Share</b>.</li><li>4. Specify the comment and proportion.</li><li>5. Click <b>Ok</b>.</li></ol>
Input Traffic Control Profile	Applies an input traffic scheduling and shaping profile to the logical interface.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li><li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li><li>3. Expand interface—set tree and select <b>Input Traffic Control Profile</b>.</li><li>4. Specify the comment and profile name.</li><li>5. Click <b>Ok</b>.</li></ol>

**Table 1: Interfaces Configuration Fields** (continued)

Option	Function	Your Action
Input Traffic Control Profile Remaining	Applies an input traffic scheduling and shaping profile for remaining traffic to the logical interface.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li><li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li><li>3. Expand interface—set tree and select <b>Input Traffic Control Profile Remaining</b>.</li><li>4. Specify the comment and profile name.</li><li>5. Click <b>Ok</b>.</li></ol>
Output Traffic Control Profile	Applies an output traffic scheduling and shaping profile to the logical interface.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li><li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li><li>3. Expand interface—set tree and select <b>Output Traffic Control Profile</b>.</li><li>4. Specify the comment and profile name.</li><li>5. Click <b>Ok</b>.</li></ol>
Output Traffic Control Profile Remaining	Applies an output traffic scheduling and shaping profile for remaining traffic to the logical interface.	<ol style="list-style-type: none"><li>1. Expand the <b>Interfaces</b> tree and select <b>Interface Set</b>.</li><li>2. Click the <b>New</b> button or select an interface set and click the <b>Edit</b> button.</li><li>3. Expand interface—set tree and select <b>Output Traffic Control Profile Remaining</b>.</li><li>4. Specify the comment and profile name.</li><li>5. Click <b>Ok</b>.</li></ol>

- Related Topics**
- Configuring CoS Classifiers (NSM Procedure)
  - Configuring CoS Code Point Aliases (NSM Procedure)
  - Configuring CoS Drop Profile (NSM Procedure)
  - Configuring CoS Forwarding Classes (NSM Procedure)
  - Configuring CoS Rewrite Rules (NSM Procedure)

- Configuring CoS Schedulers (NSM Procedure)
- Configuring CoS and Applying Scheduler Maps (NSM Procedure)

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