

## Configuring CoS Forwarding Policy (NSM Procedure)

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Class-of-service (CoS)-based forwarding (CBF) enables you to control next-hop selection based on a packet's class of service and, in particular, the value of the IP packet's precedence bits.

You can specify a particular interface or next hop to carry high-priority traffic while all best-effort traffic takes some other path. When a routing protocol discovers equal-cost paths, it can pick a path at random or load-balance across the paths through either hash selection or round robin. CBF allows path selection based on class.

To configure CoS forwarding policy in NSM:

1. In the NSM navigation tree, select **Device Manager > Devices**.
2. Click the **Device Tree** tab, and then double-click the device to select it.
3. Click the **Configuration** tab. In the configuration tree, expand **Class of Service**.
4. Select **Forwarding Policy**.
5. Add or modify forwarding policy settings as specified in Table 1.
6. Click one:
  - OK—Saves the changes.
  - Cancel—Cancels the modifications.

**Table 1: Forwarding Policy Configuration Details**

Task	Your Action
Specify the name of forwarding class and override the incoming packet classification.	<ol style="list-style-type: none"><li>1. Click <b>Add new entry</b> next to Class.</li><li>2. In the <b>Name</b> box, enter the name of forwarding class.</li><li>3. Click <b>Classification Override</b> next to Class.</li><li>4. In the <b>Forwarding Class</b> box, enter the name of the forwarding class.</li></ol>

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**Table 1: Forwarding Policy Configuration Details** (continued)

Task	Your Action
Specify the map for CoS forwarding routes.	<ol style="list-style-type: none"><li>1. Click <b>Add new entry</b> next to Next Hop Map.</li><li>2. In the <b>Name</b> box, enter the map that defines next-hop routes.</li><li>3. Click <b>Forwarding Class</b> next to next-hop-map.</li><li>4. Click <b>Add new entry</b> next to Forwarding Class.</li><li>5. In the <b>Name</b> box, enter the name of the forwarding class.</li><li>6. Select the <b>Non LSP Next Hop</b> check box to use a non-LSP next hop for traffic sent to the forwarding class next-hop map of the forwarding policy.</li><li>7. Select the <b>Discard</b> check box to discard the traffic sent to the forwarding class for the next-hop map referenced by the forwarding policy.</li><li>8. Click <b>Lsp Next Hop</b> next to forwarding-class.</li><li>9. Click <b>New</b> button next to Lsp Next Hop.</li><li>10. In the <b>New Lsp-next-hop</b> dialog box, enter the LSP regular expression to which to map the forwarded traffic.</li><li>11. Click <b>Next Hop</b> next to forwarding-class.</li><li>12. In the <b>New next-hop</b> dialog box, enter the next-hop name or address to which to map forwarded traffic.</li></ol>

- Related Topics**
- Configuring CoS Classifiers (NSM Procedure)
  - Configuring CoS Routing Instances (NSM Procedure)
  - Configuring Tracing Operations (NSM Procedure)

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