

## Configuring Generated Routes (NSM Procedure)

---

Generated routes are used as routes of last resort. A packet is forwarded to the route of last resort when the routing tables have no information about how to reach that packet's destination. One use of route generation is to create a default route to use if the routing table contains a route from a peer on a neighboring backbone network. A generated route becomes active when it has one or more contributing routes. A contributing route is an active route that is a specific match for the generated destination.

For example, for the destination **128.100.0.0/16**, routes to **128.100.192.0/19** and **128.100.67.0/24** are contributing routes, but routes to **128.0.0.0/8**, **128.0.0.0/16**, and **128.100.0.0/16** are not. A route can contribute only to a single generated route. However, an active generated route can recursively contribute to a less specific matching generated route. For example, a generated route to the destination **128.100.0.0/16** can contribute to a generated route to **128.96.0.0/13**. By default, when generated routes are installed in the routing table, the next hop device selects from the primary contributing route.

To configure generated routes in NSM:

1. In the navigation tree, select **Device Manager > Devices**.
2. In the **Devices** list, double click the device to select it.
3. Click the **Configuration** tab.
4. In the configuration tree, expand **Routing Options**.
5. Select **Generate**.
6. Add or modify the parameters as specified in Table 1.
7. Click one:
  - **OK**—To save the changes.
  - **Cancel**—To cancel the modifications.
  - **Apply**—To apply the routing option settings.



**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 *Updating Devices* section in the *Network and Security Manager Administration Guide* for more information.

---

**Table 1: Generated Routes Fields**

| Option  | Function                                       | Your Action      |
|---------|--|------------------|
| Comment | Specifies the comment for the generated route. | Enter a comment. |

---

**Table 1: Generated Routes Fields** (continued)

| Option   | Function   | Your Action  |
|----------|--|--|
| Defaults | Enables you to specify globally generated route options. These are treated as global defaults and apply to all the generated routes you configure.   | <ol style="list-style-type: none"><li data-bbox="1036 388 1430 443">1. Expand the <b>Generate</b> tree and select <b>Defaults</b>.</li><li data-bbox="1036 457 1430 485">2. Configure the default route options.</li></ol> |
| Route    | Enables you to configure individually generated routes. You can also configure globally generated route options. These options apply to the individual destination only and override any options you configured in Defaults. | <ol style="list-style-type: none"><li data-bbox="1036 527 1430 581">1. Expand the <b>Generate</b> tree and select <b>Route</b>.</li><li data-bbox="1036 596 1430 651">2. Configure the individual route options.</li></ol> |

---

Published: 2009-08-23