

## Configuring BGP (NSM Procedure)

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Border Gateway Protocol (BGP) is used for exchanging routing information between gateway hosts/internet service providers. The routing information refers to the routing tables containing information about the list of known devices, the addresses they can reach, and a cost metric associated with the path to each device so that the best available route is chosen. The primary function of a BGP speaking system is to exchange network reachability information with other BGP systems. This feature enables you to configure BGP peering sessions.

To configure BGP in NSM:

1. In the navigation tree select **Device Manager > Devices** and select the device from the list.
2. In the configuration tree, expand **Protocols**.
3. Select **BGP**.
4. Add/Modify the parameters under the respective tabs as specified in Table 1.
5. Click one:
  - **OK**—To save the changes.
  - **Cancel**—To cancel the modifications.
  - **Apply** — To apply the protocol 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 [Updating Devices](#) for more information.

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**Table 1: BGP Configuration Fields**

Field	Function	Your Action
General	The general parameters to be set up for applying BGP.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>General</b> tab.</li><li>3. Specify the general parameters like comment, description, local address, hold time, etc.</li></ol>
Path Selection	Enables you to specify the path selection criteria.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Path Selection</b> tab.</li><li>3. Set up the path selection parameters and med plus IGP.</li></ol>

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

Field	Function	Your Action
Traceoptions	Defines trace options for IGMP snooping.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Traceoptions</b> tab.</li><li>3. Set up the file and flag parameters.</li></ol>
Metric Out	Enables you to specify the metric value to add to the routes transmitted to the neighbor.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Metric Out</b> tab.</li><li>3. Set up the metric value and minimum IGP.</li></ol>
Multihop	If an EBGP peer is more than one hop away from the local router, you must specify the next hop to the peer so that the two systems can establish a BGP session. This type of session is called a multihop BGP session.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Multihop</b> tab.</li><li>3. Set up the comment, Ttl and specify whether the next hop has to be changed.</li></ol>
Advertise	Enables you to specify whether BGP should advertise the best route even if the routing table did not select it to be an active route.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Advertise</b> tab.</li><li>3. Specify whether Advertise has to be inactivated and set up the Advertise Peer As.</li></ol>
Import	Enables you to apply one or more routing policies to routes being imported into the JUNOS routing table from BGP.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Import</b> tab.</li><li>3. Specify the export policies configured on the peer.</li></ol>
Family	Enables you to configure protocol family information for the logical interface.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Family</b> tab.</li><li>3. Specify the Family and Inet parameters.</li><li>4. Expand the <b>Inet</b> tree and set up the parameters.</li></ol>
Authentication Settings	Enables you to specify the authentication settings for BGP.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Authentication Settings</b> tab.</li><li>3. Specify the authentication key, algorithm and key chain.</li></ol>

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

Field	Function	Your Action
Export	Enables you to apply one or more routing policies to routes being exported from the JUNOS routing table from BGP	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Export</b> tab.</li><li>3. Specify the export policies configured on the peer.</li></ol>
Local As	Enables you to configure BGP with a different local autonomous session (AS) number for each BGP session	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Local As</b> tab.</li><li>3. Enter the comment, as number, loop and specify whether it is private.</li></ol>
Graceful Restart	Enables you to specify the graceful restart parameters.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Graceful Restart</b> tab.</li><li>3. Specify the graceful restart parameters.</li></ol>
Bfd Liveness Detection	Enables you to configure bidirectional forwarding detection (BFD) timers.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Bfd Liveness Detection</b> tab.</li><li>3. Specify the Bfd Liveness Detection parameters, Detection Time and Transmit Interval.</li></ol>
Group	Enables you to configure BGP group.	<ol style="list-style-type: none"><li>1. Expand the <b>Protocol</b> tree.</li><li>2. Select <b>BGP</b> and select <b>Group</b> tab.</li><li>3. Click the <b>New</b> button or select a group and click <b>Edit</b> button.</li><li>4. Enter all the group parameters.</li></ol>

Published: 2009-08-23