

Configuring Routing Engine Redundancy (NSM Procedure)

You can configure redundancy properties for routers that have multiple Routing Engines or these multiple switching control boards: Switching and Forwarding Modules (SFMs), System and Switch Boards (SSBs), Forwarding Engine Boards (FEBs), or Compact Forwarding Engine Boards (CFEBs).

To configure routing engine redundancy 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, select **Chassis > Redundancy**.
4. Add or modify settings as specified in Table 1.
5. Click one:
 - OK—Saves the changes.
 - Cancel—Cancels the modifications.

Table 1: Chassis Redundancy Configuration Details

Task	Your Action
Configure redundancy options.	<ol style="list-style-type: none">1. In the Comment box, enter the comment.2. From the keepalive list, select the time before the backup router takes mastership when it detects loss of the keepalive signal. Range: 2 through 10,000
Instruct the backup router to take mastership if it detects hard disk errors or a loss of a keepalive signal from the master Routing Engine.	<ol style="list-style-type: none">1. Click Failover next to Redundancy.2. In the Comment box, enter the comment.3. Select the type of failover.
For routing platforms with two Routing Engines, configure a master Routing Engine to switch over gracefully to a backup Routing Engine without interruption to packet forwarding.	<ol style="list-style-type: none">1. Click Graceful Switchover next to Redundancy.2. In the Comment box, enter the comment.

Table 1: Chassis Redundancy Configuration Details (continued)

Task	Your Action
Sets the function of the Routing Engine for the specified slot. By default, the Routing Engine in slot 0 is the master Routing Engine and the Routing Engine in slot 1 is the backup Routing Engine.	<ol style="list-style-type: none">1. Click Routing Engine next to Redundancy.2. From the Name list, select the slot number.3. In the Comment box, enter the comment.4. Select the function of the Routing Engine for the specified slot.5. Select one of the following:<ul style="list-style-type: none">■ master—To configure the routing engine to be the master.■ backup—To configure the routing engine to be the backup.■ disabled—To disable the routing engine.

- Related Topics**
- Configuring Aggregated Devices (NSM Procedure)
 - Configuring a T640 Router on a Routing Matrix (NSM Procedure)
 - Configuring a Routing Engine to Reboot or Halt on Hard Disk Errors (NSM Procedure)

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