

Configuring Fate Sharing (NSM Procedure)

Fate sharing allows you to create a database of information that the constrained shortest path first (CSPF) algorithm uses to compute one or more backup routing paths to use in case the primary path becomes unstable. The database describes the relationships between elements of the network. Through fate sharing, you can configure backup paths that minimize the number of shared links and fiber optic cables, to ensure that in the event of damage to a fiber optic cable, only the minimum amount of data is lost and that a path still exists to the destination. For a backup path to work optimally, it must not share links or physical fiber optic cables with the primary path. This ensures that a single point of failure will not affect the primary and backup paths at the same time.

This feature enables you to specify groups of objects that share characteristics resulting in backup paths to be used if primary paths fail. All objects are treated as /32 host addresses. You can specify one or more objects within a group. The objects can be LAN interfaces, device IDs, or point-to-point links.

To configure fate sharing 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 **Fate Sharing**.
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: Fate Sharing Fields

| Option | Function | Your Action |
|---------|---|------------------|
| Comment | Specifies the comment for the fate sharing. | Enter a comment. |
| Group | | |

Table 1: Fate Sharing Fields (continued)

| Option | Function | Your Action |
|---------|---|---|
| Name | Specifies the name of the fate sharing group. | <ol style="list-style-type: none">1. Expand the Fate Sharing tree and select Group.2. Click the New button or select a group and click the Edit button.3. Enter the group name. |
| Comment | Specifies the comment for the fate sharing group. | <ol style="list-style-type: none">1. Expand the Fate Sharing tree and select Group.2. Click the New button or select a group and click the Edit button.3. Enter the comment. |
| Cost | Specifies the configurable cost attributed to each group, which represents the level of impact this group has on CSPF computations. The higher the cost, the less likely a backup path will share any objects in the group with the primary path. | <ol style="list-style-type: none">1. Expand the Fate Sharing tree and select Group.2. Click the New button or select a group and click the Edit button.3. Enter the cost or select a value from the list. |
| From | Specifies the from address and to address for point-to-point link objects. | <ol style="list-style-type: none">1. Expand the Group tree and select From.2. Click the New button or select a group and click the Edit button.3. Specify the From address. |

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