



CHAPTER 8

Managing Links

This chapter describes how to add and remove a static link between two ports of two NEs in the network. These static links will override any existing auto-discovered topology in the system. A static link is identical in all respects to a link that was auto-discovered.

Static links can be viewed using the Topology branch and in the device topology static key in the relevant Golden Source AVM .xml file.

- [Creating a Static Link](#)—Describes how to add a static link between two ports of two NEs in the network.
- [Removing a Static Link](#)—Describes how to delete a dynamic or static link or all the links between devices.

Creating a Static Link

Users can create a static link between devices by selecting the two end ports from the device's physical inventory in Cisco ANA Manage. To create a static topological link the user needs to supply the exact location of the two end ports (at both ends of the link). The physical hierarchy in which the port is located defines the location of a port, as follows:

Device > [shelf] > module > [submodule] > port



Note

The link is bi-directional, and only needs to be added once.

The new link is validated after the two ports are selected, but before the link is added. Validation checks the following:

- The similarity of the connector port types (for example, RJ45 on both sides).
- Layer 2 technology type (for example, ATM OC-3 on both sides).
- The physical layer.
- The operation status of both ports.
- If one of the ports is part of another link.

If the validation discovers that one of the ends is part of a static link then the user is asked to delete the previous link manually. If validation discovers that one of the ends is part of a dynamic link then the previous link is overridden.

To create a new static link:

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- Step 1** Select the Topology branch in the Cisco ANA Manage window.



- Note** Any changes made in the Topology branch are saved automatically and are registered immediately in Cisco ANA.
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- Step 2** Right-click to display the menu and choose **New Static Link**, or from File menu, choose **New Static Link**, or on the toolbar, click **New Static Link**. The New Static Link dialog box is displayed.

The A Side and Z Side lists enable the user to choose the devices, and the port where the static link will be created. When a device is selected from the list, the physical inventory of the device is displayed in the related area of the dialog box.

- Step 3** From the A Side and Z Side lists choose a device. The physical inventory of each device is displayed in the related area of the dialog box.

- Step 4** Expand the tree and choose the A Side and Z Side port of each device.

For more information about the icons and severity displayed in this dialog box, refer to the *Cisco Active Network Abstraction NetworkVision User Guide*.

- Step 5** Click **Create**. The link is validated and a confirmation message is displayed.



- Note** The **Create** button is only enabled when A Side and Z Side ports are selected.
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- Note** A warning message is displayed if:
One of the validation checks fails.
The operation status of one port is up and the other port is down.
The ports selected are not of the same type.
The Layer 2 technology type is not the same.
If one of the ports is part of another link.
Click **No** to cancel the connection.
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- Step 6** Click **Close**. The New Static Link dialog box is closed, and the newly created link between the two devices is displayed in the workspace.



- Note** The new link is created with the rule A Side < Z Side lexicographically. For example, if the user selected A Side = PE-West and Z Side = PE-East. The link that is created and displayed in the table, will be A Side = PE-East and Z Side = PE-West.
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Removing a Static Link

A static link between the devices can be deleted. A static link is one that is manually entered by the user.

To remove a link:

Step 1 Select the Topology branch in the Cisco ANA Manage window.

Step 2 Select the required link in the workspace.



Note Multiple rows can be selected.

Step 3 Right-click to display the menu and choose **Delete**, or on the toolbar, click **Delete**. The selected link is deleted and is no longer displayed in the workspace.

■ Removing a Static Link