Managing Properties

This chapter contains the following sections:

About Network Properties

The **Network Properties** tab allows you to create your own properties that you can use to configure your TIF policies.

Default Properties

Cisco XNC provides the following properties by default:

- Latency
- Number
- Bandwidth
- String

Each property contains one or more policies. For example, the Number property contains policies that are related to numbers, such as weighted least cost path, or hop count based shortest path. The Bandwidth policy contains policies related to bandwidth, such as including or avoiding links with a specific bandwith.

Many of the policies also contain metrics that further define the property. The latency properties, for example, include time-based metrics. You could use a latency property with a policy to include only those links that have latency less than 1 nanosecond.

Custom Properties

You can create custom property templates based on an existing template. After you have created a custom property template, you can rename the policies that are associated with that template, create metrics for the template, and use that template as a parent to create additional templates. The custom properties can be used when you create TIF policies.

Manual Links

Create manual links if you have links that have not been discovered by Cisco XNC.

Adding a Link Property

Link properties use the values of both custom and default property templates.

Step 1	On the Cisco XNC menu bar, click **Topology**.
Step 2	In the topology diagram, click the link for which you want to set properties.
Step 3	In the **Properties** tab, click **Add Property**.
Step 4	In the **Add Property** dialog box, complete the following fields:

Name	Description
Property drop-down list	Choose the property that you want to add to the link.
Metric drop-down list	Choose the metric that you want to add to the link.
Value field	The value for the metric that you want to use for the link.

Step 5	Click **Add Property**.

Adding a Property Template

Step 1	On the Cisco XNC menu bar, click **Topology**.
Step 2	In the **Templates** tab, click **Add Template**.
Step 3	In the **Add Property Template** dialog box, complete the following fields:

Name	Description
Name field	The name that you want to assign to the property template The name may contain between 1 and 256 alphanumeric characters including the following special characters: underscore (_), hyphen (-), plus (+), equals (=), open parenthesis ("("), closed parenthesis (")"), vertical bar (|), or at sign (@).
Parent drop-down list	Choose the parent template to use for the custom template.

Step 4   Click **Add Template**.

Changing Policy Names for a Custom Property Template

You can change the policy names for custom property templates. Policies that belong to default property templates cannot be changed.

Step 1   On the Cisco XNC menu bar, click **Topology**.

Step 2   In the **Templates** tab, in the **Property Templates** table, click the Parent column for the custom property for which you want to change policy names.

Step 3   In the **Policies** tab, click the policy name that you want to change.

Step 4   In the **Change Policy Name** dialog box, enter the new policy name.

Step 5   Click **Submit**.

Adding Metrics to a Custom Property Template

You can add metrics to any custom property template.

Step 1   On the Cisco XNC menu bar, click **Topology**.

Step 2   In the **Templates** tab, in the **Property Templates** table, click the Parent column for the custom property for which you want to add metrics.

Step 3   In the **Properties** tab, click **Add Metric**.

Step 4   In the **Add Metrics** dialog box, complete the following fields:

Name	Description
Metric Name field	The name to be used for the metric.
	The name may contain between 1 and 256 alphanumeric characters including the following special characters: underscore (_), hyphen (-), plus (+), equals (=), open parenthesis ("("), closed parenthesis (")"), vertical bar (|), or at sign (@).
Factor field	The factor to be used for the metric.
Default Value field	The optional default value to be used for the metric.

Step 5   Click **Add Metric**.

Editing Custom Metrics

You can edit metrics that belong to a custom property template. You cannot edit default metrics.

Step 1   On the Cisco XNC menu bar, click **Topology**.

Step 2   In the **Templates** tab, in the **Property Templates** table, click the Parent column for the custom property for which you want to edit the metrics.

Step 3   In the **Properties** tab, click the metric that you want to edit.

Step 4   In the **Add Metrics** dialog box, you can do the following:

- Enter a default value and click **Set Default Value**.

- Click **Remove Metric** to delete the metric.

- Click **Cancel** to close the dialog box without making any changes.

Creating a Manual Link

Note   You should create manual links only if undiscovered links are in the topology.

Step 1   On the Cisco XNC menu bar, click **Network Properties**.

Step 2   On the **Manual Links** tab, click **Create Link**.

Step 3   In the **Create Link** dialog box, complete the following fields:

Name	Description
Name field	The name that you want to assign to the link.
	The name may contain between 1 and 256 alphanumeric characters including the following special characters: underscore (_), hyphen (-), plus (+), equals (=), open parenthesis ("("), closed parenthesis (")"), vertical bar (|), or at sign (@).
Source Node drop-down list	Choose the source node for the link.
Source Port drop-down list	Choose the source port on the selected node.
Destination Node drop-down list	Choose the destination node for the link.
Destination Port drop-down list	Choose the destination port on the selected node.

Step 4   Click **Create Link**.