

Configure SD-WAN Path Policy

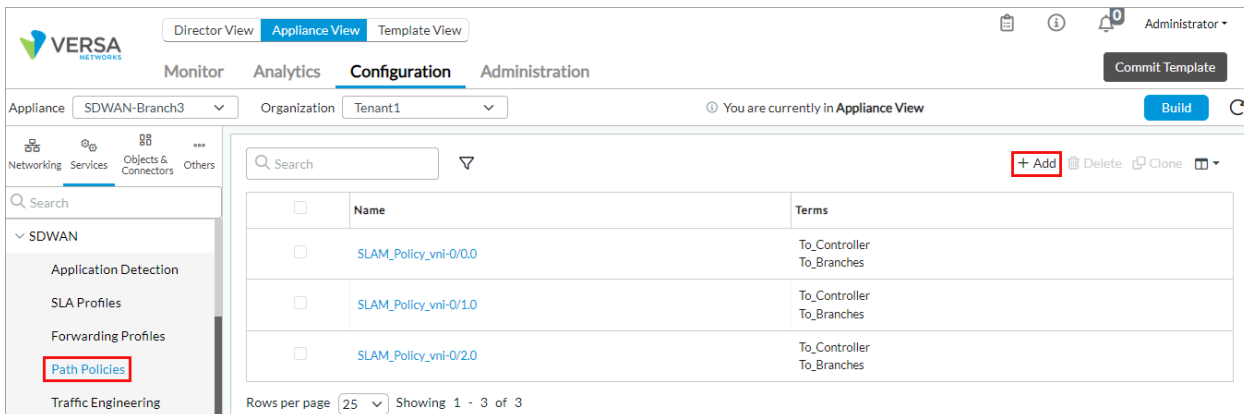
 For supported software information, click [here](#).

When you use data-driven SLA monitoring, you configure SD-WAN path policies to direct traffic to the direct and alternate paths used to reach a destination.

Note that you can use SLA monitoring only to control SLA probes. You cannot apply firewall or QoS rules to SLA traffic egressing from the VOS device.

To configure a path policy:

1. In Director view:
 - a. Select the Configuration tab in the top menu bar.
 - b. Select Templates > Device Templates in the left menu bar.
 - c. Select an organization in the left menu bar.
 - d. Select a post-staging template in the main pane. The view changes to Appliance view.
2. Select the Configuration tab in the top menu bar.
3. Select Services > SD-WAN > Path Policies. The main pane displays a list of the path policies that are already configured.



The screenshot shows the Versa Networks configuration interface. The top navigation bar includes tabs for Director View, Appliance View (selected), and Template View. Below this, there are tabs for Monitor, Analytics, Configuration (selected), and Administration. The left sidebar shows a tree view with categories like Networking, Services, Objects & Connectors, and Others. Under Services, the SD-WAN section is expanded, and Path Policies is selected. The main pane displays a table of configured path policies. The table has columns for Name and Terms. There are three entries: SLAM_Policy_vni-0/0.0, SLAM_Policy_vni-0/1.0, and SLAM_Policy_vni-0/2.0. Each entry has a checkbox in the first column. The Terms column lists To_Controller and To_Branches. A '+ Add' button is visible in the top right of the table area. At the bottom of the table, it says 'Rows per page 25 Showing 1 - 3 of 3'.

	Name	Terms
<input type="checkbox"/>	SLAM_Policy_vni-0/0.0	To_Controller To_Branches
<input type="checkbox"/>	SLAM_Policy_vni-0/1.0	To_Controller To_Branches
<input type="checkbox"/>	SLAM_Policy_vni-0/2.0	To_Controller To_Branches

4. Click the + Add icon. The Add Path Policy popup window displays.

Add Path Policy ✕

Policy Name *

Terms List + - ↕ ↕ ↕ ↕ ↕ ↕ ↕ ↕ ↕ ↕ 1 25 ▾

MATCH								
LOCAL CIRCUIT					REMOTE CIRCUIT			
<input type="checkbox"/>	Term Name	Name	Media	Types	Name	Media	Types	Group Membership
No Terms Added								

OK **Cancel**

5. In the Policy Name field, enter a name for the path policy.
6. Click the + Add icon to add a term for the path policy. The Add Terms popup window displays.

Add Terms ✕

Term Name *

Match Action

Remote Site Type Select ▾

Circuit Names | Circuit Types | Circuit Media








<input type="checkbox"/>	Local	+ - ↕ ↕
Local Not Configured		

<input type="checkbox"/>	Remote	+ - ↕ ↕
Remote Not Configured		

<input type="checkbox"/>	Group Membership	+ - ↕ ↕
Group Membership Not Configured		



OK **Cancel**

7. In the Term Name field, enter a name for the path policy term.
8. Select the Match tab to define policy match conditions. Enter information for the following fields.

Field	Description
Remote Site Type	Select the type of the remote site: <ul style="list-style-type: none"> ◦ Branch ◦ Controller
Group Membership	Click the  Add icon and select the name of the remote hub group that you created when you configure a hub device.
Circuit Names (Tab)	Configure the WAN circuits to match, by circuit name.
◦ Local	Click the  Add icon. From the drop-down, select a WAN circuit name on the local branch. Circuits typically have names such as WAN1 and WAN2.
◦ Remote	Click the  Add icon. From the drop-down, select a WAN circuit name on the remote branch.
Circuit Types (Tab)	Configure the circuits to match, by circuit type.
◦ Local	Click the  Add icon. From the drop-down, select a WAN circuit type on the local branch. Circuits typically have types such as broadband, IP, and MPLS
◦ Remote	Click the  Add icon. From the drop-down, select a WAN circuit type on the remote branch.
Circuit Media (Tab)	Configure the circuits to match, by circuit media.
◦ Local	Click the  Add icon. From the drop-down, select a WAN circuit media on the local branch. Circuits typically have media such as cable, DSL, Ethernet, LTE, T1, and T3.
◦ Remote	Click the  Add icon. From the drop-down, select a WAN circuit type on the remote branch.

9. Select the Action tab to define the action to take if the match conditions are met. Enter information for the following fields.

Field	Description
SLA Monitoring (Group of Fields)	Configure values to change the default SLA-monitoring parameters.
<ul style="list-style-type: none"> Interval 	<p>Enter how often to send SLA probes on each path between the branch nodes.</p> <p><i>Range:</i> 100 to 300000 milliseconds <i>Default:</i> 10000 milliseconds</p>
<ul style="list-style-type: none"> Logging Interval 	<p>Enter how often to log SLA measurements for each path to the Analytics node</p> <p><i>Default:</i> 300 seconds</p>
<ul style="list-style-type: none"> Loss Threshold 	<p>Enter the number of consecutive SLA probes that must be lost for a path to be declared inactive.</p> <p><i>Default:</i> 3</p>
Adaptive SLA Monitoring (Group of Fields)	Click to enable adaptive SLA monitoring.
<ul style="list-style-type: none"> Inactivity Interval 	<p>Enter how long the path to a neighbor is inactive before VOS device switches the path to the suspended state. In this state the VOS device stops sending SLA monitor packets to the neighbor.</p> <p><i>Range:</i> 1 through 9000 seconds <i>Default:</i> 300 seconds</p>
<ul style="list-style-type: none"> Suspend Interval 	<p>Enter how long the path remains in the suspended state. After this time expires, the VOS device resumes sending SLA monitor packets on the path to the neighbor.</p> <p><i>Range:</i> 1 through 9000 seconds <i>Default:</i> 30 seconds</p>
<ul style="list-style-type: none"> Data Driven 	Click to enable data-driven SLA monitoring. For more information, see Configure Data-Driven SLA

	Monitoring.
Forwarding Class (Group of Fields)	Select the forwarding class or classes that the SLA monitoring configuration applies to.
<ul style="list-style-type: none"> FC General Configuration 	Click the  Add icon and select one or more predefined forwarding classes.
<ul style="list-style-type: none"> FC Specific Configuration 	Click the  Add icon to define a specific forwarding class configuration. To create a forwarding class, see Step 10.
Bandwidth Monitoring (Group of Fields)	Click to monitor the link bandwidth on a circuit. You can view the circuit bandwidth on the Monitor > Summary screen. To configure automatic path bandwidth measurement, see Configure Automatic Bandwidth Monitoring .
<ul style="list-style-type: none"> Interval 	<p>Enter how often to monitor the link bandwidth.</p> <p><i>Range:</i> 10 through 1440 minutes</p> <p><i>Default:</i> 10 minutes</p>

10. To add a forwarding class configuration, click the + Add icon in the FC Specific Config field. Enter information for the following fields.

Add Terms Add Forwarding Class Specific Config

×

Forwarding Class *

--Select--

SLA Monitoring

Interval (milliseconds)

10000

Logging Interval (secs)

300

Loss Threshold

3

Alarm Soak Time (secs)

0

☒ Adaptive SLA Monitoring

Inactivity Interval * (secs)

300

Suspend Interval * (secs)

30

OK

Cancel

Field	Description
Forwarding Class	Select the forwarding class that the SLA monitoring configuration applies to.
SLA Monitoring (Group of Fields)	Configure values to change the default SLA-monitoring parameters.
<ul style="list-style-type: none"> Interval 	<p>Enter how often to send SLA probes on each path between the branch nodes.</p> <p><i>Range:</i> 100 to 300000 milliseconds <i>Default:</i> 10000 milliseconds</p>
<ul style="list-style-type: none"> Logging Interval 	<p>Enter how often to log SLA measurements for each path to the Analytics node</p> <p><i>Default:</i> 300 seconds</p>
<ul style="list-style-type: none"> Loss Threshold 	<p>Enter the number of consecutive SLA probes that must be lost for a path to be declared inactive.</p> <p><i>Default:</i> 3</p>
<ul style="list-style-type: none"> Alarm Soak Time 	<p>(For Releases 22.1.1 and later.) Enter a soak time, in seconds, to damp the sending of repetitive notifications.</p> <p><i>Default:</i> 0</p>
Adaptive SLA Monitoring (Group of Fields)	Click to enable adaptive SLA monitoring.
<ul style="list-style-type: none"> Inactive Interval 	<p>Enter how long a neighbor is inactive before VOS device switches the path to the suspended state. In this state the VOS device stops sending SLA monitor packets to the neighbor.</p> <p><i>Range:</i> 1 through 9000 seconds <i>Default:</i> 300 seconds</p>
<ul style="list-style-type: none"> Suspend Interval 	<p>Enter how long the path remains in the suspended state. After this time expires, the VOS device resumes</p>

	<p>sending SLA monitor packets to the neighbor.</p> <p><i>Range:</i> 1 through 9000 seconds</p> <p><i>Default:</i> 30 seconds</p>
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11. Click OK.
12. Click OK in the Edit Path Policy popup window.

Supported Software Information

Releases 20.2 and later support all content described in this article, except:

- Release 22.1.1 adds support for alarm soak time for SLA monitoring.

Additional Information

[Configure Automatic Bandwidth Monitoring](#)

[Configure Data-Driving SLA Monitoring](#)

[Configure SD-WAN Traffic Steering](#)

[Configure SLA Monitoring](#)

[Troubleshoot Link Bandwidth Issues](#)