# Configure SD-WAN Path Policy

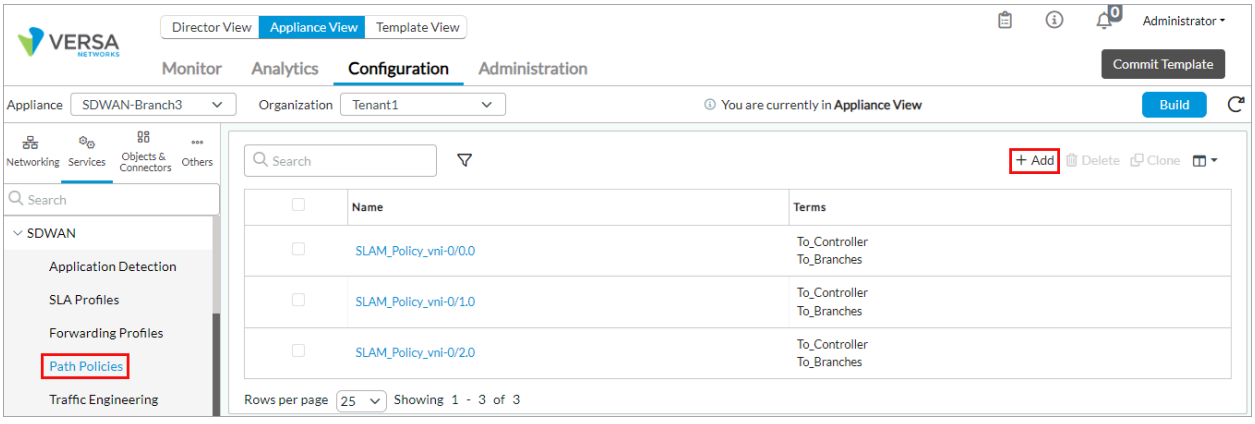
*For supported software information, click here.*

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.




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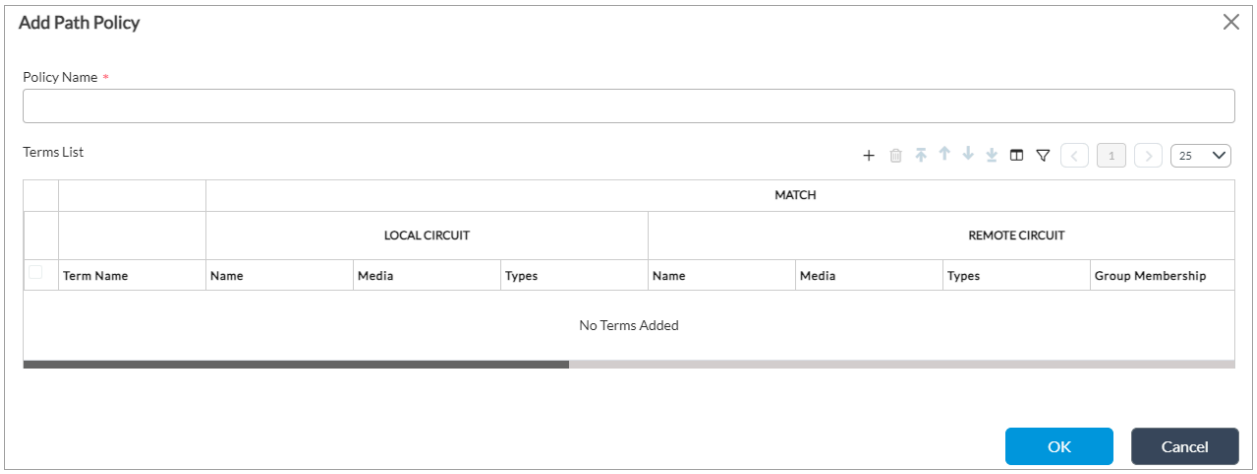
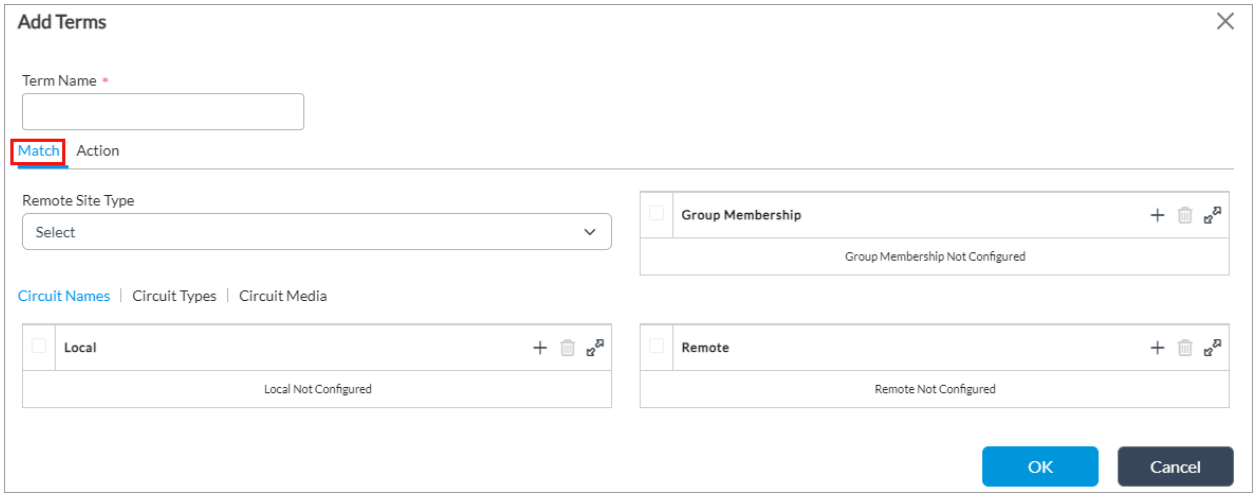


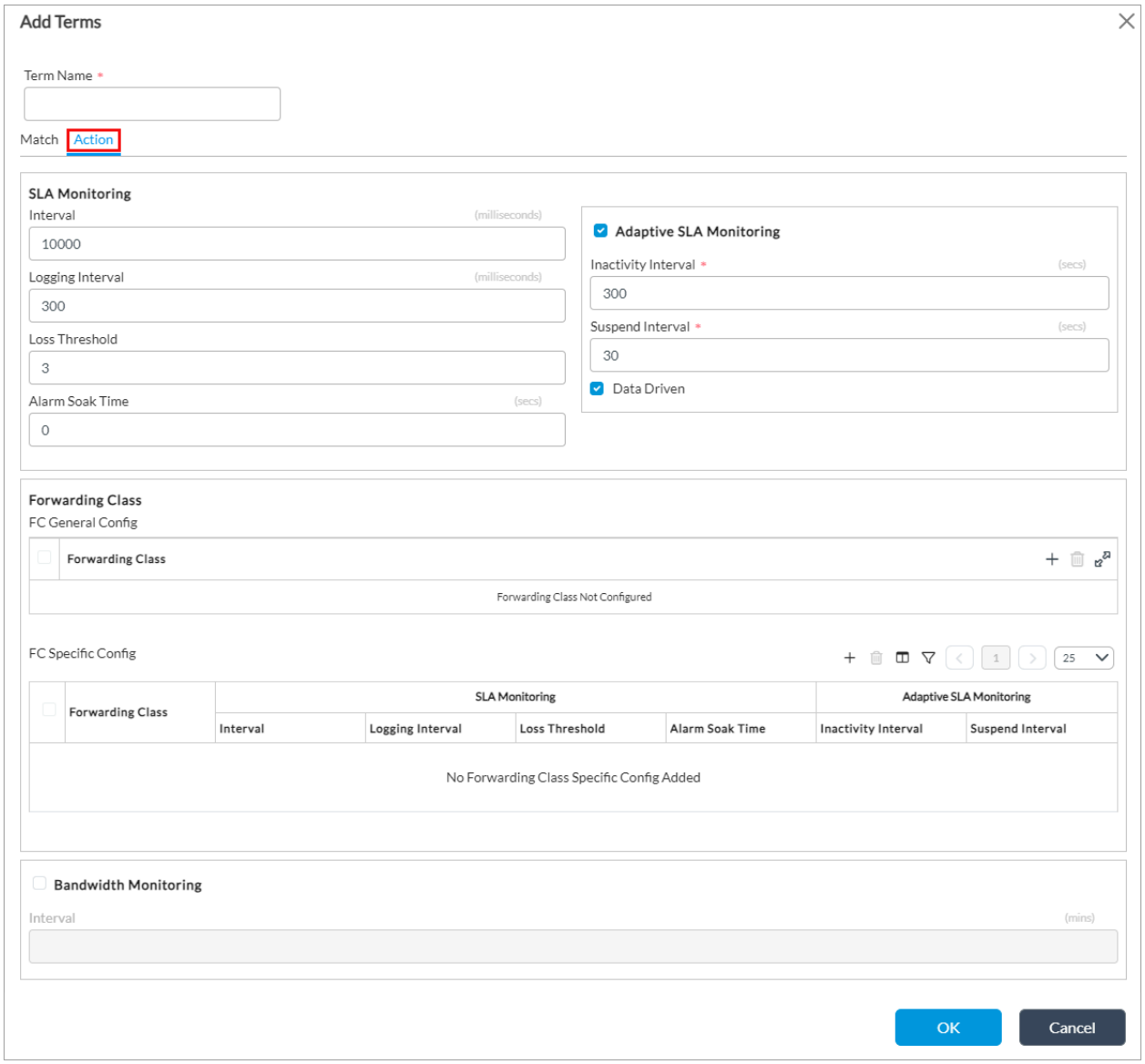

5. In the Policy Name field, enter a name for the path policy.
6. Click the + Add icon to add a term for the path policy. The Add Terms popup window displays.




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:<br>◦ Branch<br>◦ 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.





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| Field | Description |
| --- | --- |
| SLA Monitoring (Group of Fields) | Configure values to change the default SLA-monitoring parameters. |
| ◦ Interval | Enter how often to send SLA probes on each path between the branch nodes.<br><br>*Range*: 100 to 300000 milliseconds<br>*Default*: 10000 milliseconds |
| ◦ Logging Interval | Enter how often to log SLA measurements for each path to the Analytics node<br>*Default*: 300 seconds |
| ◦ Loss Threshold | Enter the number of consecutive SLA probes that must be lost for a path to be declared inactive.<br>*Default*: 3 |
| Adaptive SLA Monitoring (Group of Fields) | Click to enable adaptive SLA monitoring. |
| ◦ Inactivity Interval | 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.<br><br>*Range*: 1 through 9000 seconds<br><br>*Default*: 300 seconds |
| ◦ Suspend Interval | 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.<br><br>*Range*: 1 through 9000 seconds<br><br>*Default*: 30 seconds |
| ◦ Data Driven | Click to enable data-driven SLA monitoring. For more information, see Configure Data-Driven SLA |

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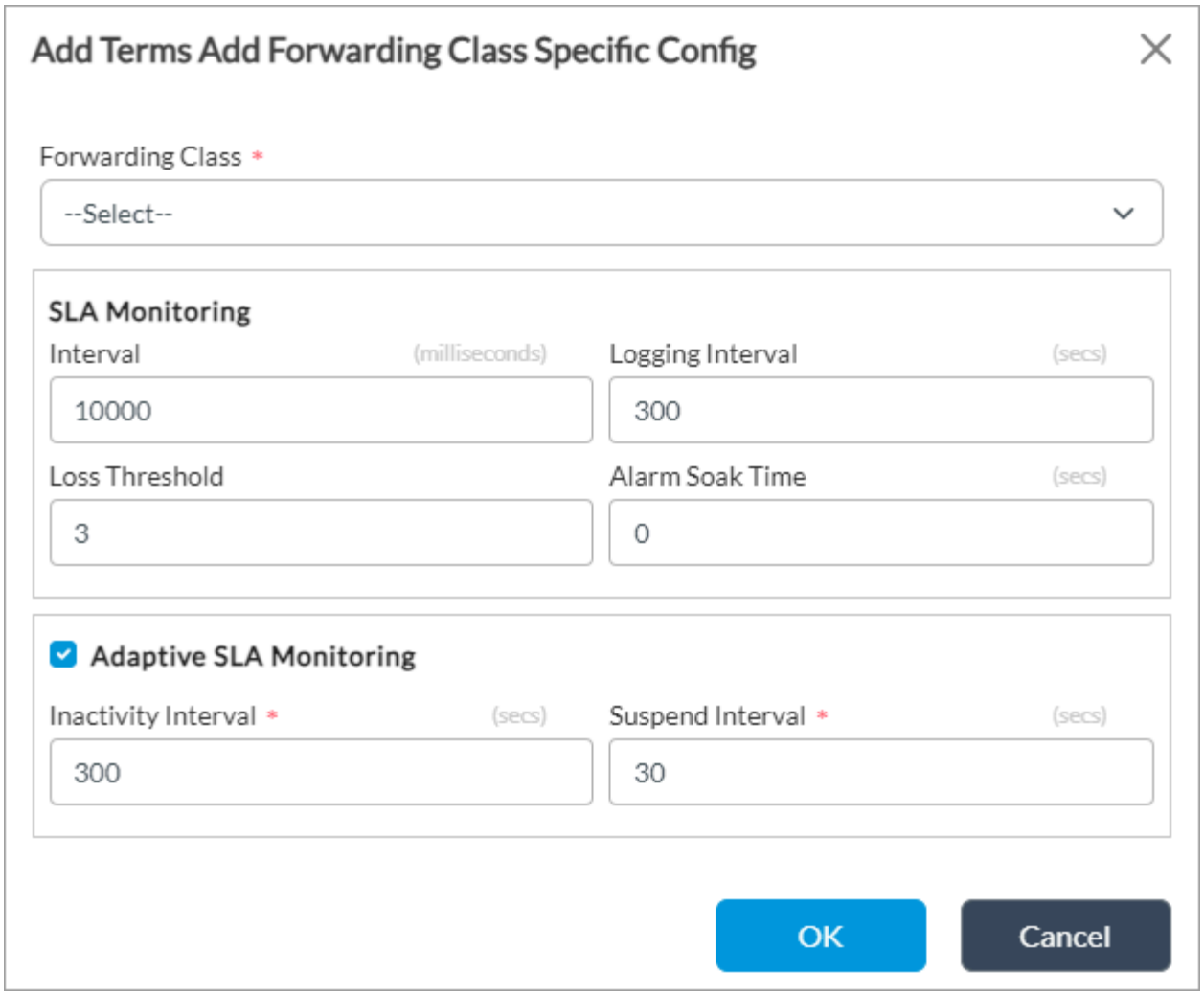
| | Monitoring. |
| Forwarding Class (Group of Fields) | Select the forwarding class or classes that the SLA monitoring configuration applies to. |
| ◦ FC General Configuration | Click the Add icon and select one or more predefined forwarding classes. |
| ◦ FC Specific Configuration | Click the Add icon 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. |
| ◦ Interval | Enter how often to monitor the link bandwidth.<br><br>*Range*: 10 through 1440 minutes<br><br>*Default*: 10 minutes |

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



| 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. |
| ◦ Interval | Enter how often to send SLA probes on each path between the branch nodes.<br><br>*Range*: 100 to 300000 milliseconds<br>*Default*: 10000 milliseconds |
| ◦ Logging Interval | Enter how often to log SLA measurements for each path to the Analytics node<br>*Default*: 300 seconds |
| ◦ Loss Threshold | Enter the number of consecutive SLA probes that must be lost for a path to be declared inactive.<br>*Default*: 3 |
| ◦ Alarm Soak Time | (For Releases 22.1.1 and later.) Enter a soak time, in seconds, to damp the sending of repetitive notifications.<br><br>*Default*: 0 |
| Adaptive SLA Monitoring (Group of Fields) | Click to enable adaptive SLA monitoring. |
| ◦ Inactive Interval | 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.<br><br>*Range*: 1 through 9000 seconds<br><br>*Default*: 300 seconds |
| ◦ Suspend Interval | Enter how long the path remains in the suspended state. After this time expires, the VOS device resumes |

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| | sending SLA monitor packets to the neighbor.<br><br>*Range*: 1 through 9000 seconds<br><br>*Default*: 30 seconds |

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