Trace Views

In releases before Cisco vManage Release 20.6.1, you can view the trace flow from three sections: **Geography View**, **Feature View (Upstream)**, and **Feature View (Downstream)**.

From Cisco vManage Release 20.6.1, you can view the trace flow information from these tabs in the **Insight - Advanced Views** area after expanding a flow in the **Insight** area—**Domain Trend**, **Flow Trend**, **Upstream Feature**, **Downstream Feature**, and **Geography**.

Note In Cisco vManage Release 20.6.1 through Cisco vManage 20.8.x, **Domain Trend** is called **App Trend**.

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Domain Trend

The **Domain Trend** tab is available from Cisco vManage Release 20.6.1. It was called **App Trend** in In Cisco vManage Release 20.6.1 through Cisco vManage 20.8.x. This tab appears only when DNS discovery is enabled and displays trends for metrics and events in an application flow. Hover your cursor over the data points in the tab to see detailed information.

The client network delay (CND) and server network delay (SND) information that appears on this tab are measured by the applications' TCP traffic. DNS request frequency shows how often a SaaS application is visited. HTTP probe response time and loss rate are measured by probes that are sent by a router to the SaaS application server to detect a reachable direct internet access (DIA) network path and help evaluate the benefit of deploying a DIA traffic policy.

From the **Chart Metrics** drop-down list, you can choose the metric types for which you want to view information. From the **Devices** drop-down list, you can choose specific devices for which you want to view data. By default, trend information appears for all metric types and all devices.

You can limit the display to trends that occurred within a specified time, or those that occurred within a specified period. You can choose a period of 1, 10, or 30 minutes, or 1, 2, or 5 hours. You also can click **Custom** and enter a date and time range, or click **Real Time** to display information as it is collected.

Flow Trend

The **Flow Trend** tab is available from Cisco vManage Release 20.6.1. This tab displays trends for metrics and events in a trace flow. Hover your cursor over data points to see detailed information.

From the **Chart Metrics** drop-down list, you can choose specific metric types for viewing information. From the **Flow Direction** drop-down list, you can choose the traffic flow direction for viewing data. By default, trend information appears for latency, jitter, WAN loss, and average queue depth, and for all the flow directions.

Use the **Navigate to Event** drop-down list to choose information about a specific event.

You can limit the display to trends that occurred within a specified time, or those that occurred within a specified period. You can choose a period of 1, 10, or 30 minutes, or 1, 2, or 5 hours. You also can click **Custom** and enter a date and time range, or click **Real Time** to display information as it is collected.

Geography View

Supported releases: Cisco Catalyst SD-WAN Manager Release 20.14.1 and earlier

In the **Geography View** section for releases before Cisco vManage Release 20.6.1 or the Geography tab in releases beginning with Cisco vManage Release 20.6.1, you can view the end-to-end trace flow and metrics plotted on the map for a selected trace. The topology graph displays the geographic information about the devices included in the flow.

- The geography view supports "Automatic Network Path Discovery," where you input only the Site and VPN to trace the complete **bidirectional, end-to-end** real-traffic network flow path.
- Each node in the topology is connected with two lines. One line represents upstream direction and the other represents downstream direction.
- Issues (example: SLA violation) detected in the flow metric are shown in different colored lines.

Upstream and Downstream Feature Views

In the **Feature View** section for releases before Cisco vManage Release 20.6.1 or the **Upstream Feature** and **Downstream Feature** tabs in releases beginning with Cisco vManage Release 20.6.1, view the upstream and downstream feature trace with associated policy details.

To view the upstream and downstream details of the flow, expand a flow record in the flow path and metrics table.

- The feature view provides a list of ingress and egress features that are applied to the flow, and the execution result of each feature.
    - Typical ingress features include: SD-WAN ACL, NBAR, SD-WAN data policy, SD-WAN app-route policy, SD-WAN forwarding, and so on.
    - Typical egress features include: NBAR, IPsec, SDWAN QoS Output, QoS, Transmit report, and so on.

- For releases before Cisco vManage Release 20.6.1, in the Ingress or Egress view, click a policy to view detailed configuration in a pop-up window and validate policy behavior. For releases beginning with Cisco vManage Release 20.6.1, click **View Policy** to view this information and validate behavior for the corresponding policy. (**View Policy** does not apply to policies that are configured by using a CLI template.)

Note The downstream feature view shows similar information but organized from a downstream direction.