



Performing Path Traces

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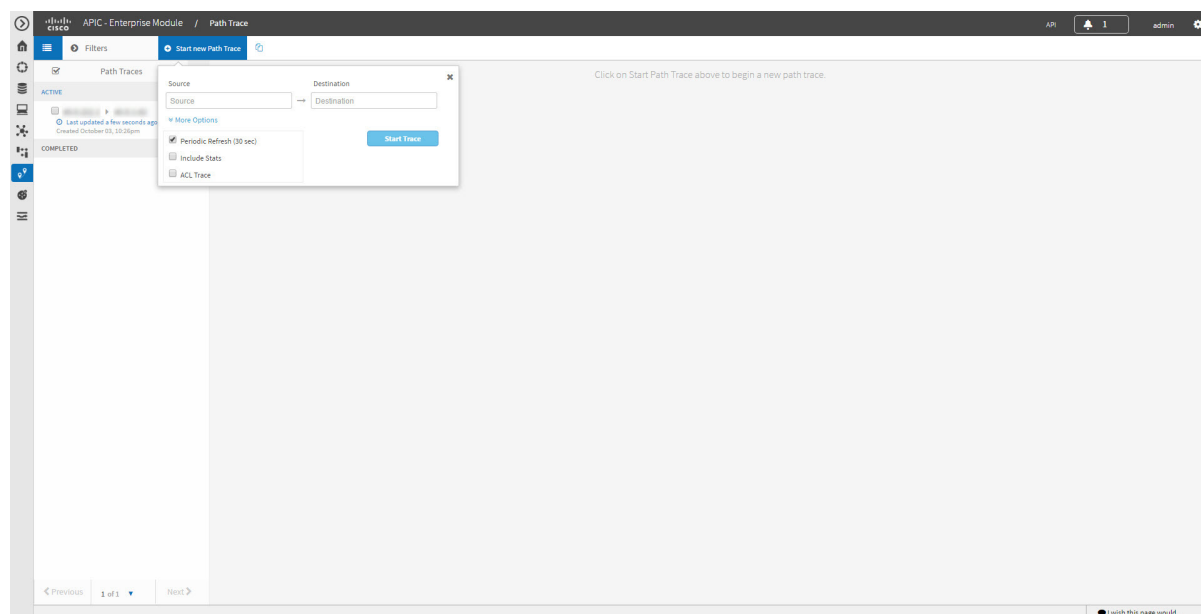
Performing a Path Trace

You can perform a path trace between two nodes in your network. The two nodes may be two hosts and/or Layer 3 interfaces.



Note The path trace application may display accuracy notes. Accuracy notes are red boxes that appears on a node or path segment indicating the accuracy of the computed path as a percentage. Place your cursor over the note to view suggestions of corrective actions to take to improve the path trace accuracy. For example, you may be prompted to enter port values and run the path trace again.

Figure 1: Path Trace Window



Before you begin

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

Ensure that the controller has SSH or Telnet access to the devices.

Step 1 In the Navigation pane, click **Path Trace**.

Step 2 From the path trace toolbar, click **Start new Path Trace**.

Step 3 In the **Source** field, enter the IP address of the host or the Layer 3 forwarding interface where you want the trace to start.

If you enter the device IP address manually, you need to select the device from the list and then the interfaces for that device.

Step 4 In the **Destination** field, enter the IP address of the host or Layer 3 forwarding interface where you want the trace to end. You can also enter an IP address of an unmanaged device (called an unknown destination).

If you enter the device IP address manually, you need to select the device from the list and then the interfaces for that device.

Step 5 (Optional) To configure source and destination ports or protocols, click **More Options**.

Step 6 (Optional) In the **Source Port** field, enter the port number of the host where you want the trace to end.

Step 7 (Optional) In the **Destination Port** field, enter the port number of the host where you want the trace to end.

Step 8 (Optional) In the **Protocol** field, choose **tcp** or **udp** from the drop-down menu for the Layer 4 path trace protocol.

Step 9 (Optional) To configure the path trace to refresh every 30 seconds, check the **Periodic Refresh (30 sec)** check box.

Step 10 (Optional) To configure the path trace to collect additional statistics, check the **Stats** check box and any of the following check boxes, as desired:

- **QoS**—Collects and displays information about quality of service.

- **Interface**—Collects and displays information about the interfaces on the devices along the path.
- **Device**—Collects and displays information, such as a device's CPU and memory usage.
- **Perf Mon**—Collects and displays performance monitoring information about the devices along the path.

Note When you choose the **Perf Mon** option, APIC-EM enables performance monitoring configuration for all of the flows on the devices in the path. To proceed, you need to confirm this configuration.

Step 11 (Optional) Select the **ACL Trace** check box to run an ACL-based path trace.

Step 12 Click **Start Trace**.

Review the path trace output. For more information, see [Understanding Path Trace Results, on page 8](#).

Step 13 Unless you performed a path trace to an unknown destination, you can view the path trace in the **Topology** window. To do so, click **View in Topology**. The **Topology** window opens in a new window with the path trace highlighted in your network. For more information about the **Topology** window, see the *Cisco Application Policy Infrastructure Controller Enterprise Module Administrator Guide*.

Note If you added location markers for your devices, the location markers appear in the Topology map. Click a location marker to display the **Topology** for that location.

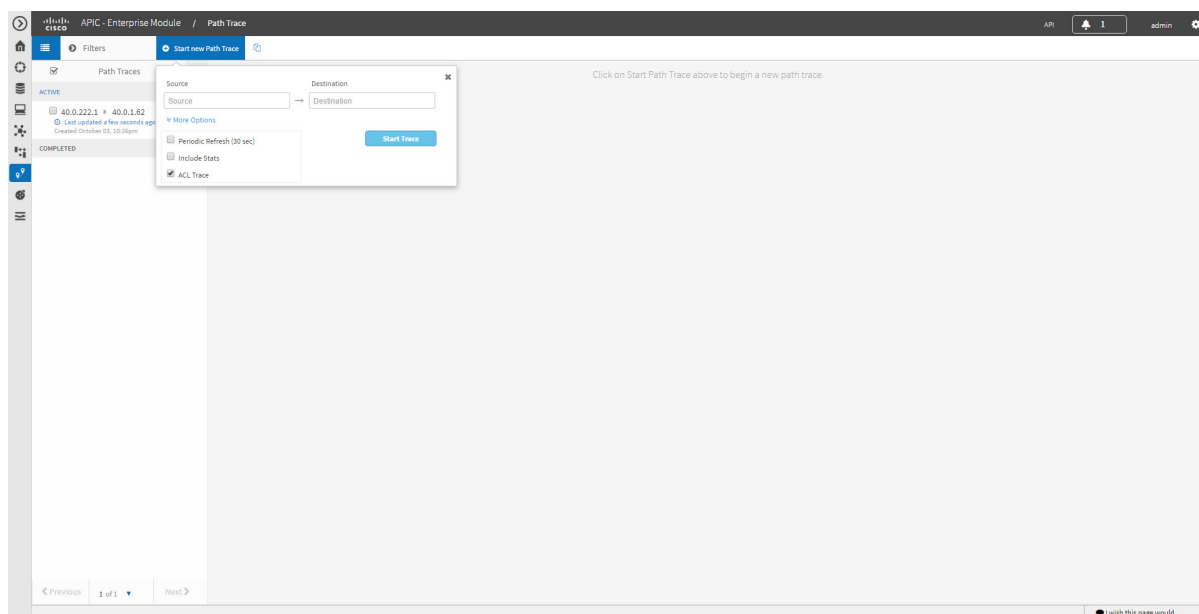
Performing an ACL-Based Path Trace

You can perform a path trace between two nodes in your network. The two nodes may be two hosts and/or Layer 3 interfaces.



Note The path trace application may display accuracy notes. Accuracy notes are red boxes that appears on a node or path segment indicating the accuracy of the computed path as a percentage. Place your cursor over the note to view suggestions of corrective actions to take to improve the path trace accuracy. For example, you may be prompted to enter port values and run the path trace again.

Figure 2: Path Trace Window Showing ACL Trace Selected



Before you begin

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

Ensure that the controller has SSH or Telnet access to the devices.

Step 1 In the Navigation pane, click **Path Trace**.

Step 2 From the path trace toolbar, click **Start new Path Trace**.

Step 3 In the **Source** field, enter the IP address of the host or the Layer 3 forwarding interface where you want the trace to start.

If you enter the device IP address manually, you need to select the device from the list and then the interfaces for that device.

Step 4 In the **Destination** field, enter the IP address of the host or Layer 3 forwarding interface where you want the trace to end. You can also enter an IP address of an unmanaged device (called an unknown destination).

If you enter the device IP address manually, you need to select the device from the list and then the interfaces for that device.

Step 5 (Optional) To configure source and destination ports or protocols, click **More Options**.

Step 6 (Optional) In the **Source Port** field, enter the port number of the host where you want the trace to end.

Step 7 (Optional) In the **Destination Port** field, enter the port number of the host where you want the trace to end.

Step 8 (Optional) In the **Protocol** field, choose **tcp** or **udp** from the drop-down menu for the Layer 4 path trace protocol.

Step 9 (Optional) To configure the path trace to refresh every 30 seconds, check the **Periodic Refresh (30 sec)** check box.

Step 10 (Optional) To configure the path trace to collect additional statistics, check the **Stats** check box and any of the following check boxes, as desired:

- **QoS**—Collects and displays information about quality of service.

- **Interface**—Collects and displays information about the interfaces on the devices along the path.
- **Device**—Collects and displays information, such as a device's CPU and memory usage.
- **Perf Mon**—Collects and displays performance monitoring information about the devices along the path.

Note When you choose the **Perf Mon** option, APIC-EM enables performance monitoring configuration for all of the flows on the devices in the path. To proceed, you need to confirm this configuration.

Step 11 Select the **ACL Trace** check box to run an ACL-based path trace.

Step 12 Click **Start Trace**.

Review the path trace output. For more information, see [Understanding ACL Path Trace Results, on page 13](#).

Step 13 Unless you performed a path trace to an unknown destination, you can view the path trace in the **Topology** window. To do so, click **View in Topology**. The **Topology** window opens with the path trace highlighted in your network. For more information about the **Topology** window, see the *Cisco Application Policy Infrastructure Controller Enterprise Module Administrator Guide*.

Note If you added location markers for your devices, the location markers appear in the Topology map. Click a location marker to display the **Topology** for that location.

Collecting Statistics During a Path Trace

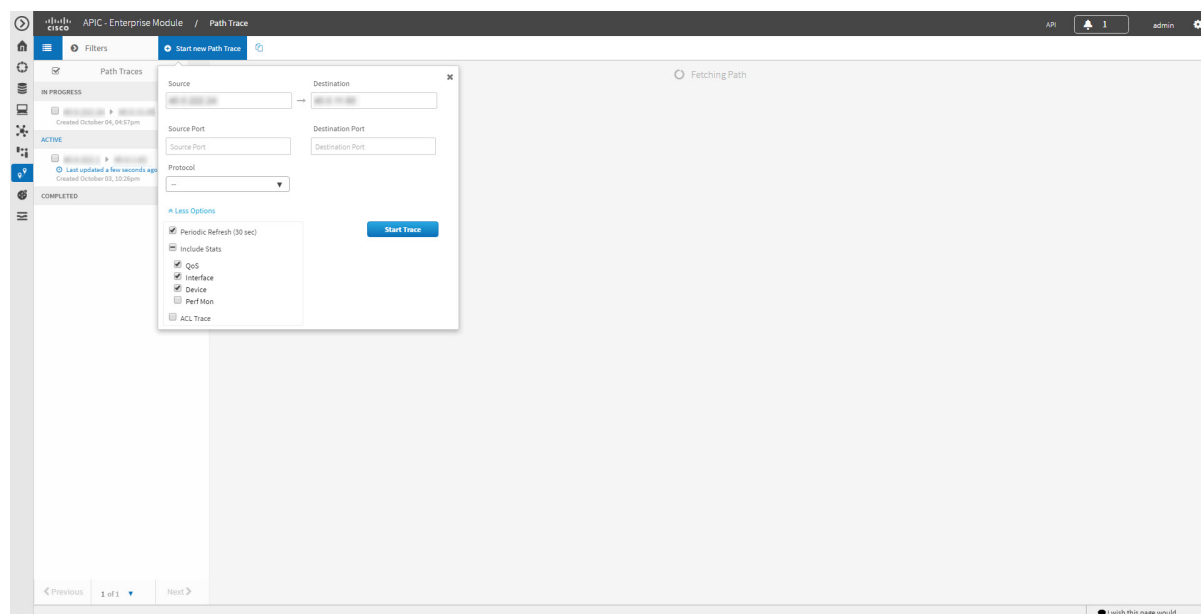
You can perform a path trace between two nodes in your network and collect the following types of statistics about the path:

- Quality of Service (QoS)
- Interface
- Device
- Performance Monitor (If you choose to run a path trace to collect **Perf Mon** statistics, the Cisco APIC-EM configures all of the devices in the requested path with the necessary flow monitor configuration. For information about this configuration, see [Performance Monitor Configuration](#).)



Note The path trace application may display accuracy notes. Accuracy notes are red boxes that appears on a node or path segment indicating the accuracy of the computed path as a percentage. Place your cursor over the note to view suggestions of corrective actions to take to improve the path trace accuracy. For example, you may be prompted to enter port values and run the path trace again.

Figure 3: Path Trace Window Showing Statistics Selected



Before you begin

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

SUMMARY STEPS

1. In the **Navigation** pane, click **Path Trace**.
2. From the path trace toolbar, click **Start new Path Trace**.
3. In the **Source** field, enter the IP address of the host or the Layer 3 forwarding interface where you want the trace to start.
4. In the **Destination** field, enter the IP address of the host or Layer 3 forwarding interface where you want the trace to end.
5. (Optional) To configure source and destination ports or protocols, click **More Options**.
6. (Optional) In the **Source Port** field, enter the port number of the host where you want the trace to start.
7. (Optional) In the **Destination Port** field, enter the port number of the host where you want the trace to end.
8. (Optional) In the **Protocol** field, choose either **tcp** or **udp** from the drop-down menu for the Layer 4 path trace protocol.
9. (Optional) To configure the path trace to refresh every 30 seconds, check the **Periodic Refresh (30 sec)** check box.
10. Check the **Stats** check box.
11. Check any of the following check boxes corresponding to the type of statistics that will be collected:
12. Click **Start Trace**.
13. (Optional) To view the path trace in the **Topology** window. Click **View in Topology**.

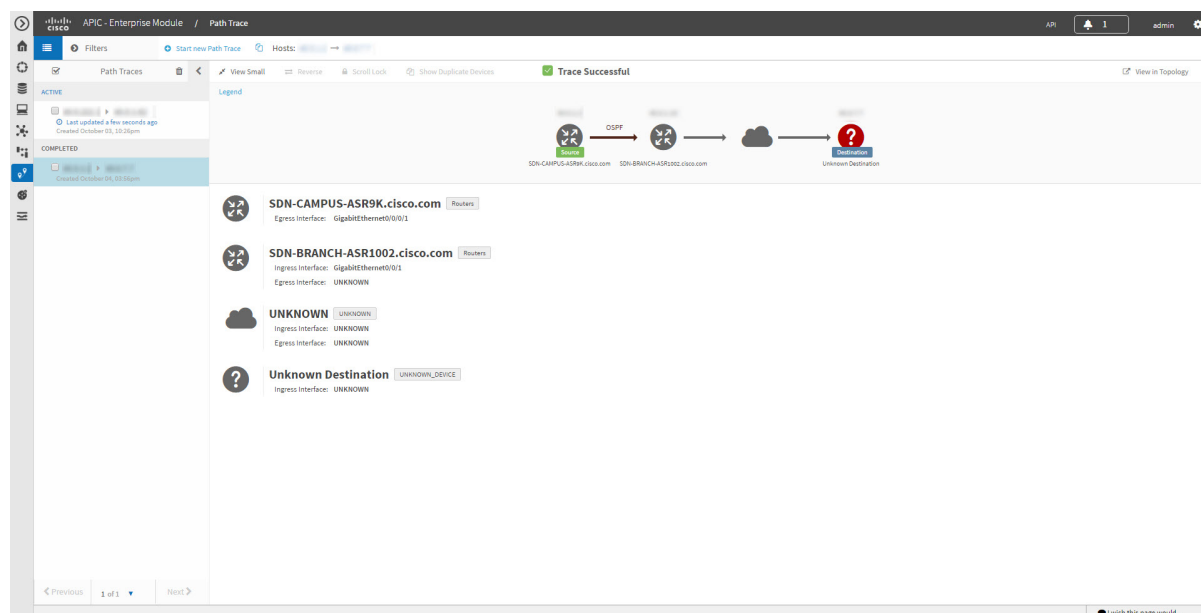
DETAILED STEPS

- Step 1** In the **Navigation** pane, click **Path Trace**.
- Step 2** From the path trace toolbar, click **Start new Path Trace**.
- Step 3** In the **Source** field, enter the IP address of the host or the Layer 3 forwarding interface where you want the trace to start.
- Step 4** In the **Destination** field, enter the IP address of the host or Layer 3 forwarding interface where you want the trace to end.
- Step 5** (Optional) To configure source and destination ports or protocols, click **More Options**.
- Step 6** (Optional) In the **Source Port** field, enter the port number of the host where you want the trace to start.
- Step 7** (Optional) In the **Destination Port** field, enter the port number of the host where you want the trace to end.
- Step 8** (Optional) In the **Protocol** field, choose either **tcp** or **udp** from the drop-down menu for the Layer 4 path trace protocol.
- Step 9** (Optional) To configure the path trace to refresh every 30 seconds, check the **Periodic Refresh (30 sec)** check box.
- Step 10** Check the **Stats** check box.
- Step 11** Check any of the following check boxes corresponding to the type of statistics that will be collected:
- **QoS Stats**
 - **Interface Stats**
 - **Device Stats**
 - **Perf Mon Stats**
- Note** If you choose to run a path trace to collect **Perf Mon** statistics, you need to grant the Cisco APIC-EM permission to configure all of the devices in the requested path with the necessary flow monitor configuration. When the confirmation dialog box appears, click **OK** to allow this configuration or **Cancel** to discontinue this action. For information about this configuration, see [Performance Monitor Configuration](#).
- Step 12** Click **Start Trace**.
- The results are displayed in the **Trace Results Device Details** pane. For information, see the following topics:
- [QoS Statistics, on page 18](#)
 - [Interface Statistics, on page 16](#)
 - [Device Statistics, on page 15](#)
 - [Performance Monitor Statistics, on page 20](#)
- Step 13** (Optional) To view the path trace in the **Topology** window. Click **View in Topology**.
- The **Topology** window opens with the path trace highlighted in your network.
- Note** If you added location markers for your devices, the location markers appear in the Topology map. Click a location marker to display the **Topology** for that location.
- For more information about the **Topology** window, see the *Cisco Application Policy Infrastructure Controller Enterprise Module Administrator Guide*.
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Understanding Path Trace Results

After you run a path trace, the results are displayed in the **Path Trace** window.

Figure 4: Path Trace Window Showing Results



Path Trace Toolbar

The **Path Trace Toolbar** provides the following options and information:

- **Filters**—Allows you to search for path traces by source or destination IP address, source or destination ports, protocol, creation date, or statistics gathered (QoS, Device, Interface, Perf Mon, and ACL trace)
- **Start new Path Trace**—Displays a dialog box where you can define the parameters for your path trace.
- **Copy icon**—Allows you to create a new path trace using the parameters that are defined in the selected (source) path trace. You can keep any of the values from the source path trace and change, add, or deselect any parameters for the new path trace.

Path Traces Pane

The Path Traces pane lists the path traces in one of three categories:

- **IN PROGRESS**—Path is currently being calculated. No results to show yet.
- **ACTIVE**—A path has been calculated and will be refreshed every 30 seconds. Statistics may also be collected periodically.
- **COMPLETED**—The path has been calculated one time and is not being refreshed. However, statistics may still be collected periodically.

Trace Results Toolbar

At the top of the **Trace Results Graphical Display** pane, the toolbar provides buttons for adjusting the path trace display.

Table 1: Trace Results Toolbar

Name 1	Description
View Small	Minimizes the trace results to view the details better.
Reverse	Displays the trace results from the host destination IP to the host source IP. The reverse path trace graphic is displayed directly below the original path trace. The reverse path trace details are displayed to the right of the original path trace details. Note If you performed a path trace to an unknown destination, you cannot display the reverse path trace.
Scroll Lock	Locks the scrolling of the path trace and reverse path trace details windows. (Available when Show Reverse is enabled.)
Show Duplicate Devices	Displays or hides duplicate devices within a path trace.
ACL Trace checkbox 2	Displays an icon at each device or interface that indicates whether any ACLs are blocking traffic on the path.
Stats	If statistics were collected for the trace, you can select one or more of the interface, QoS, device, and performance monitor check boxes to display the corresponding information in the graphical display.
View in Topology	Opens the Topology window and highlights the path trace results in your network topology. If you performed a path trace to an unknown destination, this option is not available. For more information about using the Topology window, see the <i>Cisco Application Policy Infrastructure Controller Enterprise Module Administrator Guide</i> .

¹ Depending on the trace results, some of these items on the toolbar might be unavailable.

² Available only if you performed an ACL Path Trace.

Trace Results Graphical Display

The controller graphically displays the path direction and the hosts and devices (including their IP addresses) along the path between the source (host A) and destination (host B). Clicking an individual device in the path trace highlights the device in the **Trace Results Device Details** area. The display also shows the protocol of

the path source between devices along the path: **Switched**, **STP**, **ECMP**, **Routed**, **Trace Route**, or other source type.

If you performed an ACL trace, the devices show whether the traffic matching your criteria would be permitted or denied based on the ACLs configured on the interfaces. For more information, see [Performing an ACL-Based Path Trace, on page 3](#).

Trace Results Device Details

You can review the detailed information displayed for each device in the path trace.

Table 2: Trace Results Device Details

Name	Description
IP	IP address of the device.
Type	Wired or wireless device (access point, switch, or router).

Name	Description
Link Source	<p>Information about the link between two devices (source and destination). Link information is based on the configuration of the source device.</p> <ul style="list-style-type: none"> • Border Gateway Protocol (BGP)—Link is based on the BGP routes configured on the source device. • Equal Cost Multipath (ECMP) routing—Link is based on a Cisco Express Forwarding (CEF) load balancing decision. • Enhanced Interior Gateway Routing Protocol (EIGRP)—Link is based on EIGRP routes configured on the source device. • Connected—The source host (host A) is directly connected to the destination host (host B). In the case of a reverse path, the destination host (host B) is directly connected to the source host (host A). • InterVlan Routing—There is an switched virtual interface (SVI) configuration on the source device. A VLAN is configured on the source device from which the path is switched to the destination device. • Intermediate System-to-Intermediate System Protocol (IS-IS)—Link is based upon the IS-IS routes configured on the source device. • NetFlow—Link is based on NetFlow records collected on the source device. • Next Hop Resolution Protocol (NHRP)—Path Trace shows DMVPN dynamic tunnels between two spokes by identifying the LinkInformationSource as NHRP. • Open Shortest Path First (OSPF)—Link is based on the OSPF routes configured on the source device. • Static—Link is based on a static route configured on the source device. • Switched—Link is based on Layer 2 VLAN forwarding. • Trace Route—Link is based on trace route. • Wired—The source device is wired to the destination device. • Wireless—The source device is a wireless host connected to the destination device (access point).

Name	Description
Tunnels	<p>Path trace provides a graphical view of these types of tunnels:</p> <ul style="list-style-type: none"> • Control and Provisioning of Wireless Access Points protocol (CAPWAP) data (wireless) or mobility tunneling. • Dynamic Multipoint VPN (DMVPN) tunnel—Path Trace shows the DMVPN tunnel route from spoke to spoke, spoke to hub, and from hub to spoke and indicates the underlay protocols that are in use. However, it does not show the underlay devices. <p>For information, see Understanding DMVPN Path Trace Results, on page 14.</p>
Ingress interface	<p>Ingress interface of the device for the path trace (physical or virtual).</p> <p>For example, a physical ingress interface is GigabitEthernet1/0/1 and a virtual ingress interface is GigabitEthernet1/3 [Vlan1].</p> <p>If statistics were gathered for this path trace, clicking the View Stats button displays the interface or QoS statistics. For information, see Interface Statistics, on page 16 or QoS Statistics, on page 18.</p>
Egress interface	<p>Egress interface of the device for the path trace (physical or virtual).</p> <p>For example, a physical interface is GigabitEthernet1/0/2 and a virtual ingress interface is GigabitEthernet1/4 [Vlan2].</p> <p>If statistics were gathered for this path trace, clicking the View Stats button displays the interface or QoS statistics. For information, see Interface Statistics, on page 16 or QoS Statistics, on page 18.</p>
Accuracy note	<p>If there is uncertainty about the path trace on a segment between devices, path trace displays a note that indicates the accuracy of the computed path as a percentage. For example, 10 percent would indicate lower accuracy than 90 percent.</p> <p>Place your cursor over the note to view suggestions of corrective actions to take to improve the path trace accuracy. For example, you may be prompted to enter port values and run the path trace again.</p>
VRF	<p>If Path Trace detects a VRF on a router, it displays the VRF in the graphical display and provides the interface name and VRF name. For more information, see Understanding VRF Path Trace Results, on page 15.</p>

Trace Results Statistics

If you specified that device statistics be included in the path trace, statistical information about the device is gathered and displayed. You can select or deselect one or more of the options from the **Stats** drop-down list so that you can isolate different information.

For information about the statistics, see the following sections:

- [Device Statistics, on page 15](#)
- [Interface Statistics, on page 16](#)

- [QoS Statistics, on page 18](#)
- [Performance Monitor Statistics, on page 20](#)

Understanding ACL Path Trace Results

An ACL path trace shows whether the traffic matching your criteria would be permitted or denied based on the ACLs configured on the path.

The following rules effect the ACL path trace results:

- Only matching ACEs are reported.
- If you leave out the protocol, source port, or destination port when defining a path trace, the results include ACE matches for all possible values for these fields.
- If no matching ACEs exists in the ACL, the flow is reported to be implicitly denied.

Figure 5: Path Trace Window Showing ACL Trace Selected

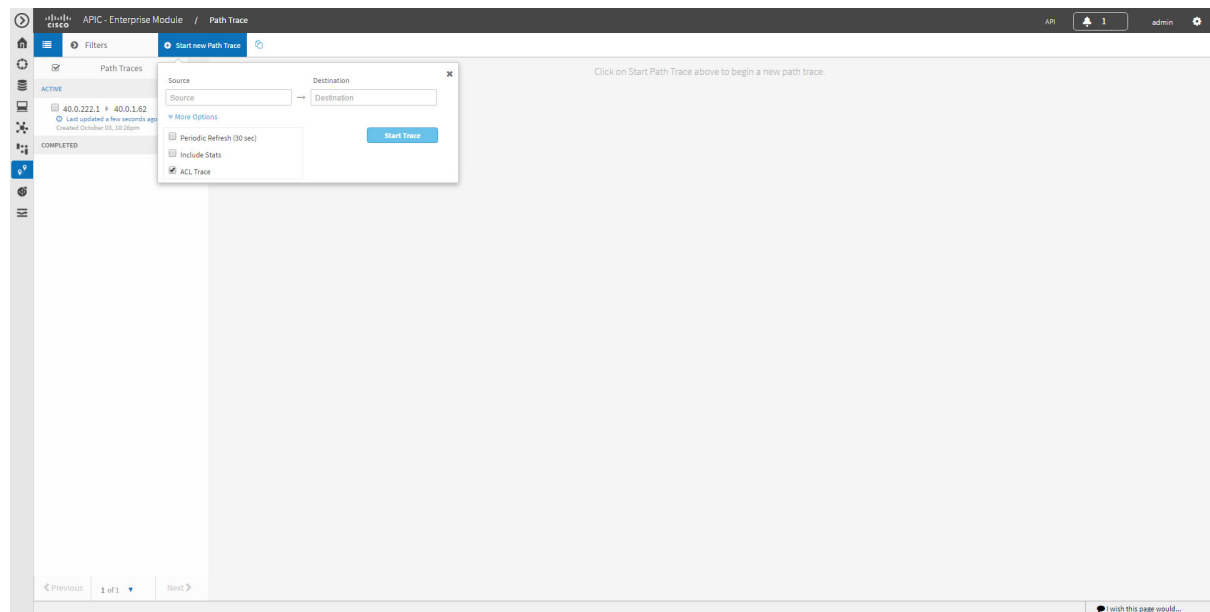






Table 3: ACL Path Trace Icons

Icon	Description
	There are ACLs that permit the traffic applied on the interface.

Icon	Description
	Traffic may or may not be blocked. For example, if your traffic matches a deny access control entry (ACE), traffic is denied. However, if your traffic matches any other ACEs, it is permitted. You can get this type of results if you leave out the protocol, source port, or destination port when defining a path trace.
	There is an ACL on the device or interface that is blocking the traffic on the path.
	There are no ACLs applied on the interface.

Understanding DMVPN Path Trace Results

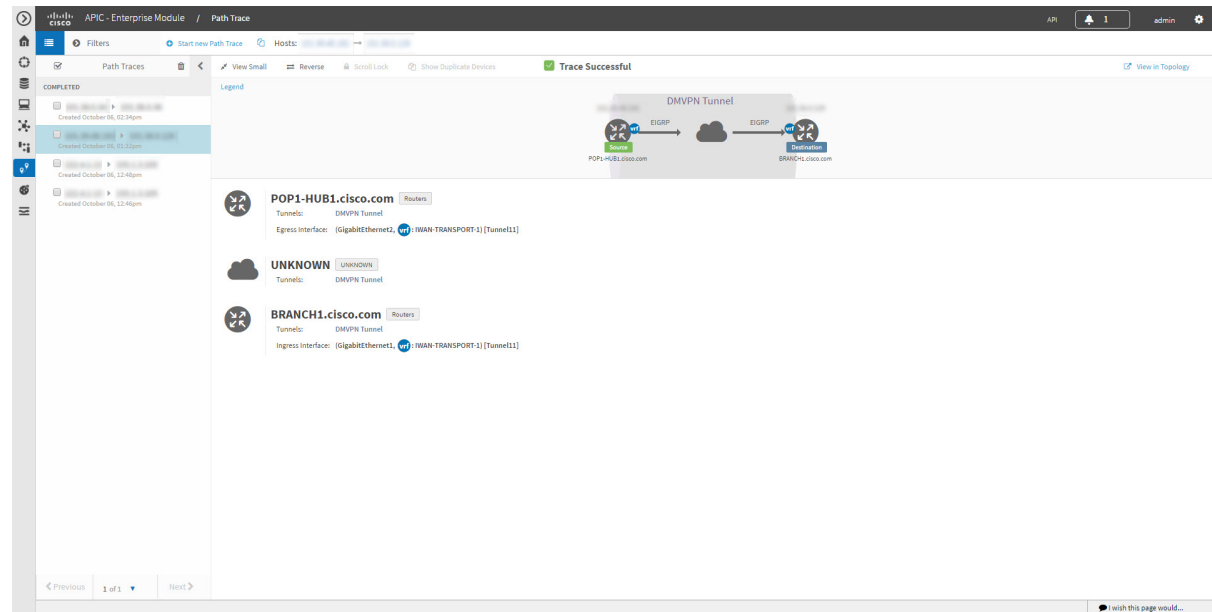
When you perform a path trace on a spoke-to-spoke connection, Path Trace determines (in real time) whether there is a dynamic NHRP entry due to traffic occurring between the two spokes. If there is, Path Trace shows the LinkInformationSource as NHRP.

If there is no traffic between the two spokes, Path Trace uses the inventory data collected during device discovery to determine the next hop server (NHS), which is the hub for the two spokes. Path trace identifies and highlights the routing protocol advertised by hub, for example EIGRP or OSPF. In addition, path trace shows any intermediate hops, including service providers (shown as a cloud icon).

Path Trace identifies all tunnel source interface types and highlights them as egress or ingress interfaces and indicates the tunnel transport types, such as Front Door VRF (FVRF) and Inside VRF (IVRF).

PathTrace shows the mGRE tunnel interface as a virtual interface and the underlay interface as physical interface on a DMVPN endpoint.

Figure 6: Path Trace Window Showing DMVPN Tunnel



Understanding VRF Path Trace Results

Path trace supports VRF Lite and VRF route leaking. If Path Trace detects a VRF on a router, it displays the VRF in the graphical display and provides the interface name and VRF name. VRFs are shown as a colored circle, making it easy to see where they are along the path. VRFs with the same name have the same color.

Understanding the Statistics Retrieved During a Path Trace

Device Statistics

If you specified that device statistics be included in the path trace, Path Trace gathers and displays statistical information about the device. Not all device types support all of the parameters (5 minutes, 5 seconds, and 1 minute). If a device does not support a particular parameter, Path Trace displays N/A (not supported).

Figure 7: Path Trace Window Showing Device Statistics

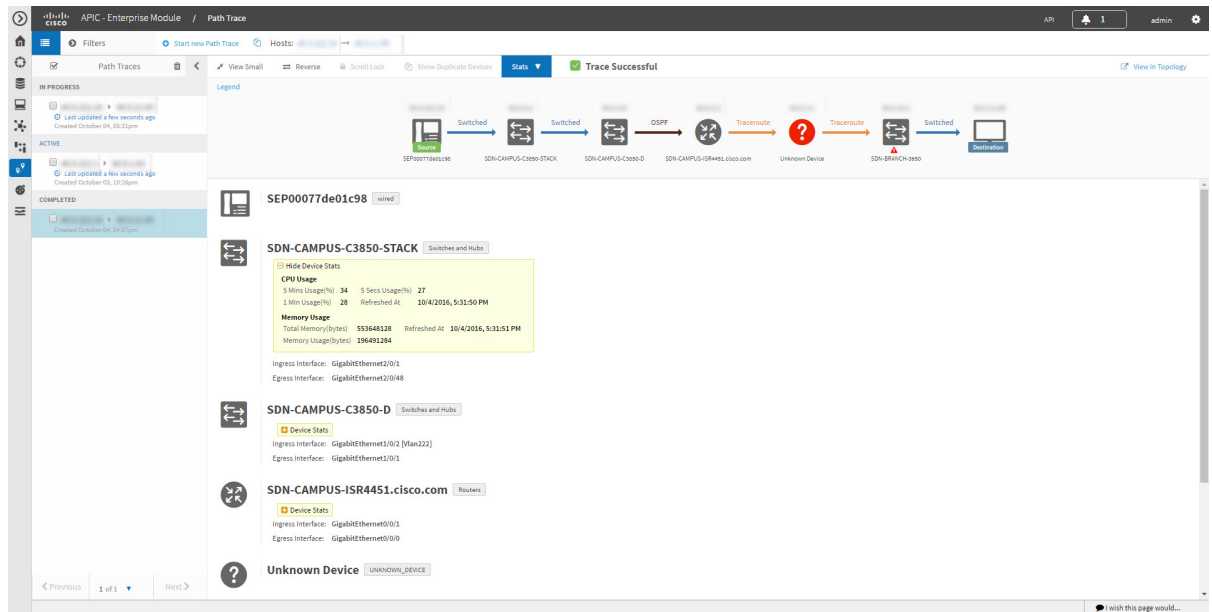


Table 4: Path Trace Device Statistics

Parameter	Description
CPU Usage	
5 Mins Usage(%)	Percentage of the device's CPU usage for the last 5 minutes.
5 Secs Usage(%)	Percentage of the device's CPU usage for the last 5 seconds.
1 Min Usage(%)	Percentage of the device's CPU usage for the last minute.
Refreshed At	Date and time when the information was gathered.
Memory Usage	
Refreshed At	Date and time when the information was gathered.
Memory Usage(bytes)	The sum of the physical memory usage and I/O memory usage (in bytes) that the device is using.
Total Memory (bytes)	Total memory (in bytes) of the device.

Interface Statistics

When you perform a path trace, you can collect interface statistics that show how the interfaces are performing. In this way, you can monitor the effect of the QoS policies on the network and make any changes, if necessary. The following table lists the interface statistics that are retrieved.

Figure 8: Path Trace Window Showing Interface Statistics

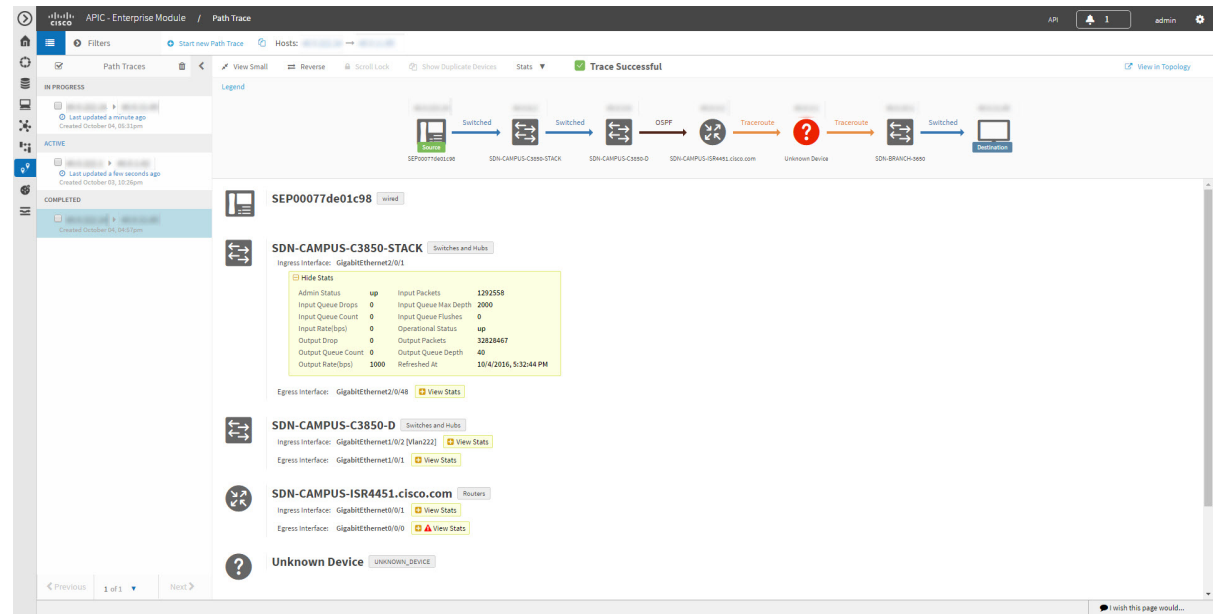


Table 5: Interface Statistics by Policy

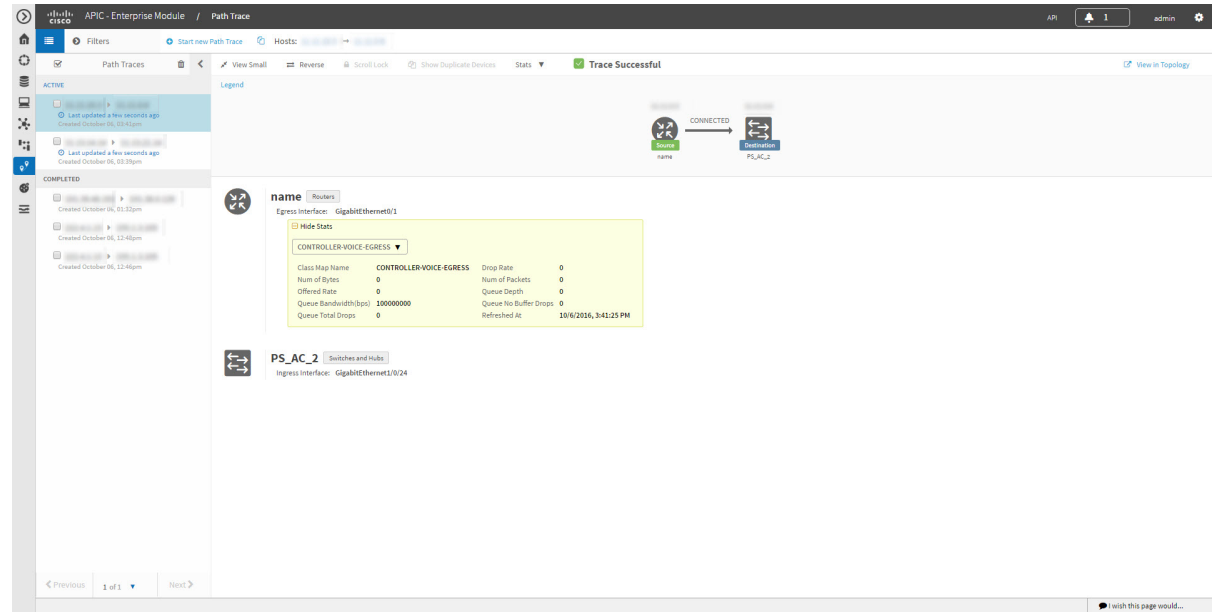
Parameter	Description
Admin Status	Administrative status of the interface: <ul style="list-style-type: none"> • Up—Interface has been enabled through the CLI. • Down—Interface has been disabled through the CLI.
Input Packets	Number of packets being received on the interface.
Input Queue Drops	Number of packets dropped from input queue since the interface counters were last cleared. It is not associated with any interval.
Input Queue Max Depth	Maximum number of packets that the input queue can hold before it must start dropping packets.
Input Queue Count	Number of packets in the input queue.
Input Queue Flushes	Number of packets dropped due to Selective Packet Discard (SPD). SPD is a mechanism that quickly drops low priority packets when the CPU is overloaded in order to save some processing capacity for high priority packets.
Input Rate (bps)	Number of bits per second at which packets are entering the interface.

Parameter	Description
Operational Status	Operational status of the interface: <ul style="list-style-type: none"> • Up—Interface is transmitting or receiving traffic as desired. To be in this state, an interface must be administratively up, the interface link layer state must be up, and the interface initialization must be completed. • Down—Interface cannot transmit or receive (data) traffic.
Output Drop	Number of packets dropped from the output queue due to the queue reaching its maximum threshold.
Output Packets	Number of packets leaving the interface.
Output Queue Count	Number of packets in the output queue.
Output Queue Depth	Maximum number of packets that the output queue can hold before it must start dropping packets.
Output Rate (bps)	Number of bits per second at which packets are leaving the interface.
Refreshed At	Date and time that the current statistics were gathered.

QoS Statistics

When you perform a path trace, you can collect QoS statistics that show how the QoS policies are performing. The only interface statistics included in the QoS statistics are those for the border router egress interface. Collecting QoS statistics helps you to monitor the effect of the QoS policies on your network devices and make any changes, if necessary.

Figure 9: Path Trace Window Showing QoS Statistics



The following table lists the QoS Statistics that are retrieved.

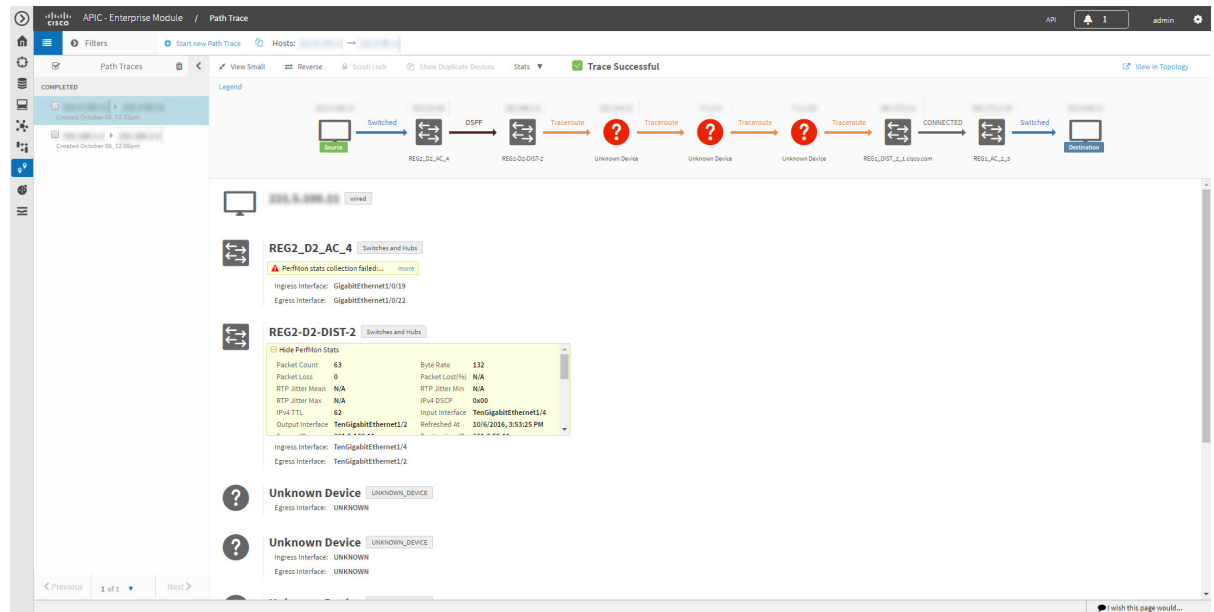
Table 6: QoS Statistics by Policy

Parameter	Description
Policy Name	Drop-down list of policy names that QoS statistics have been collected about.
Class Map Name	Name of the class map.
Num of Bytes	Average number of bytes forwarded by the queue.
Offered Rate	Traffic rate offered for that particular traffic.
Queue Bandwidth (bps)	Rate (bps) at which the queue can process packets.
Queue Total Drops	Number of packets dropped from the queue due to the queue reaching its maximum threshold.
Drop Rate	Number of bits per second at which packets are being dropped from the queue.
Num of Packets	Number of packets that the queue can hold.
Queue Depth	Maximum number of packets that the queue can hold before it must start dropping packets.
Queue No Buffer Drops	Number of times that packets were dropped due to not enough buffer allocated.
Refreshed At	Date and time that the current statistics were gathered.

Performance Monitor Statistics

When you run a path trace to collect **Perf Mon** statistics, the Cisco APIC-EM automatically configures all of the devices in the requested path with the necessary flow monitor configuration, and then removes the configuration when it is no longer needed (no pending performance monitor path trace for the path or 24 hours, whichever is first). For information about this configuration, see [Performance Monitor Configuration](#).

Figure 10: Path Trace Window Showing Performance Monitor Statistics



The following table lists the performance monitor statistics that are retrieved.

Table 7: Performance Monitor Statistics

Parameter	Description
Packet Count	Total number of IP packets sent.
Byte Rate	Average number of packets or bytes (as configured) that were processed by the monitoring system per second during the monitoring interval.
Packet Loss	Total number of IP packets lost by any intermediate system in the monitored flow.
Packet Loss (%)	Percentage of IP packets lost by any intermediate system in the monitored flow.
RTP Jitter Mean	Mean deviation (in microseconds) of the difference in packet spacing at the receiver compared to the sender for a pair of packets.
RTP Jitter Min	Minimum value of the Real-time Transport Protocol (RTP) jitter in microseconds.

Parameter	Description
RTP Jitter Max	Maximum value of the Real-time Transport Protocol (RTP) jitter in microseconds.
IPv4 DSCP (Hexadecimal)	Hexadecimal value of the IPv4 differentiated services code point (DSCP) type of service (ToS).
IPv4 TTL	Value of the IPv4 time-to-live (TTL).
Input Interface	Name of the input interface that was used as match criteria.
Output Interface	Name of the output interface that was used as match criteria.
Refreshed At	Date and time that the performance monitor statistics were gathered.
Source IP	IP address of the source interface for all of the packets sent by a flow exporter.
Destination IP	IP address of the destination interface for all of the packets sent by a flow exporter.

