IP SLAs Object Tracking

Feature History for IP SLAs Object Tracking

This table provides release and platform support information for the features explained in this module.

These features are available in all the releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature Name and Description	Supported Platform
Cisco IOS XE 17.18.1	IP SLAs Object Tracking: IP SLAs is a network performance measurement and diagnostics tool that actively monitors network health by generating traffic to assess performance metrics in real time.	Cisco C9350 Series Smart Switches Cisco C9610 Series Smart Switches

IP SLAs Object Tracking

IP Service Level Agreements (IP SLAs) is a network performance measurement and diagnostics tool that actively monitors network health by generating traffic to assess performance metrics in real time. These metrics are valuable for network troubleshooting, design, and analysis.

By enabling object tracking for IP SLAs operations, clients can monitor the results of specific IP SLAs tests and use this information to automatically trigger actions based on network conditions. Each IP SLAs operation generates an SNMP return-code value, such as OK or OverThreshold, which the tracking process interprets to determine network status.

Tracking can focus on either the state or reachability of the IP SLAs operation.

- For state

A return code of OK indicates the tracked object is up, while any other return code means it is down

- For reachability

  The tracked object is considered up if the return code is OK or OverThreshold, and down if the return code is not OK.

Configure IP SLAs Object Tracking

Perform this task to configure IP SLAs object tracking.

Procedure

Step 1 **enable**

Example:

```
Device> enable
```

Enables privileged EXEC mode.

Enter your password, if prompted.

Step 2 **configure terminal**

Example:

```
Device# configure terminal
```

Enters global configuration mode.

Step 3 **track** *object-number* **ip sla** *operation-number* {**state** | **reachability**}

Example:

```
Device(config)# track 2 ip sla 123 state
```

Enters tracking configuration mode to track the state of an IP SLAs operation.

- *object-number*: The range is from 1 to 500.
- *operation-number*: The range is from 1 to 2147483647

Step 4 **delay** {**up** *seconds* [**down** *seconds*] | [**up** *seconds*] **down** *seconds*}

Example:

```
Device(config-track)# delay up 20
```

(Optional) Specifies a period of time in seconds to delay communicating state changes of a tracked object.

The range is from 1 to 180 seconds.

Step 5 **end**

Example:

```
Device(config-track)# end
```

Returns to privileged EXEC mode.

Step 6 **show track** *object-number*

Example:

```
Device# show track 2
```

Verifies that the specified objects are being tracked.

Step 7 **copy running-config startup-config**

Example:

```
Device# copy running-config startup-config
```

(Optional) Saves your entries in the configuration file.

Monitor Enhanced Object Tracking

Use the privileged EXEC or user EXEC commands in the table below, to display enhanced object tracking information.

Table 1: Commands for displaying tracking information

Command	Purpose
show ip route track table	Displays information about the IP route track table.
show track [*object-number*]	Displays information about the all tracking lists or the specified list.
show track brief	Displays VTP status and configuration for all interfaces or the specified interface.
show track interface [brief]	Displays information about tracked interface objects.
show track ip [*object-number*] [brief] route	Displays information about tracked IP-route objects
show track resolution	Displays the resolution of tracked parameters.
show track timer	Displays tracked polling interval timers.