

Configure and Verify DIA NAT Tracker and Fallback

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Introduction

This document describes how to configure and verify DIA NAT Tracker and Fallback on Cisco IOS XE® routers using Cisco Catalyst Manager GUI.

Prerequisites

Requirements

Cisco SD-WAN NAT DIA policy must be configured on branch devices. Please check the [Related Information](#) section for instructions on how to Implement Direct Internet Access (DIA) for SD-WAN.

Components Used

This document is based on these software and hardware versions:

- Cisco Catalyst SD-WAN Manager version 20.14.1
- Cisco Catalyst SD-WAN Controller version 20.14.1
- Cisco Edge Router version 17.14.01a

The information in this document was created from the devices in a specific lab environment. All of the

devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Restrictions for NAT DIA Tracker

Restrictions for Cisco IOS XE Catalyst SD-WAN Release 17.10.1a and Earlier Releases

- In Cisco IOS XE Release 17.6.x and earlier, the NAT DIA tracker is not supported on dialer interfaces. From Cisco IOS XE Catalyst SD-WAN Release 17.7.1a, subinterfaces and dialer interfaces support single endpoint and dual endpoint trackers.
- DNS URL endpoint is not supported on Cisco IOS XE Catalyst SD-WAN devices.
- You can only apply one tracker or tracker group to an interface.
- The NAT fallback feature is supported only from Cisco IOS XE Catalyst SD-WAN Release 17.3.2.
- The IP address of the tunnel with address 169.254.x.x is not supported to track the zScaler endpoint on manual tunnels.
- You must configure a minimum of two single endpoint trackers to configure a tracker group.
- A tracker group can incorporate only a maximum of two single endpoint trackers.
- In Cisco IOS XE Release 17.10.1 and previous releases, you cannot configure IPv4 tracker on a IPv6 interface or vice versa. The tracker wont be active.

Restrictions for Cisco IOS XE Catalyst SD-WAN Release 17.11.1a

- API URL endpoint is supported only on IPv6 DIA tracker and not supported on IPv4 DIA tracker.
- Both IPv4 and IPv6 trackers cannot be used in the same tracker group.
- You must configure the **allow service all** command under the TLOC tunnel interface for IPv6 trackers to work with a TLOC tunnel interface.
- Multiple NAT66 DIA interfaces are not supported.
- NAT fallback on centralized data policy is not supported.

Restrictions for Cisco IOS XE Catalyst SD-WAN Release 17.13.1a

- Endpoint DNS elements are not supported in a tracker group.

Note: Ensure that you use an endpoint IP address responds to HTTP/HTTPS requests. For instance, Google DNS server 8.8.8.8 cannot be used as an endpoint IP address.

Supported Interfaces for NAT DIA Tracker

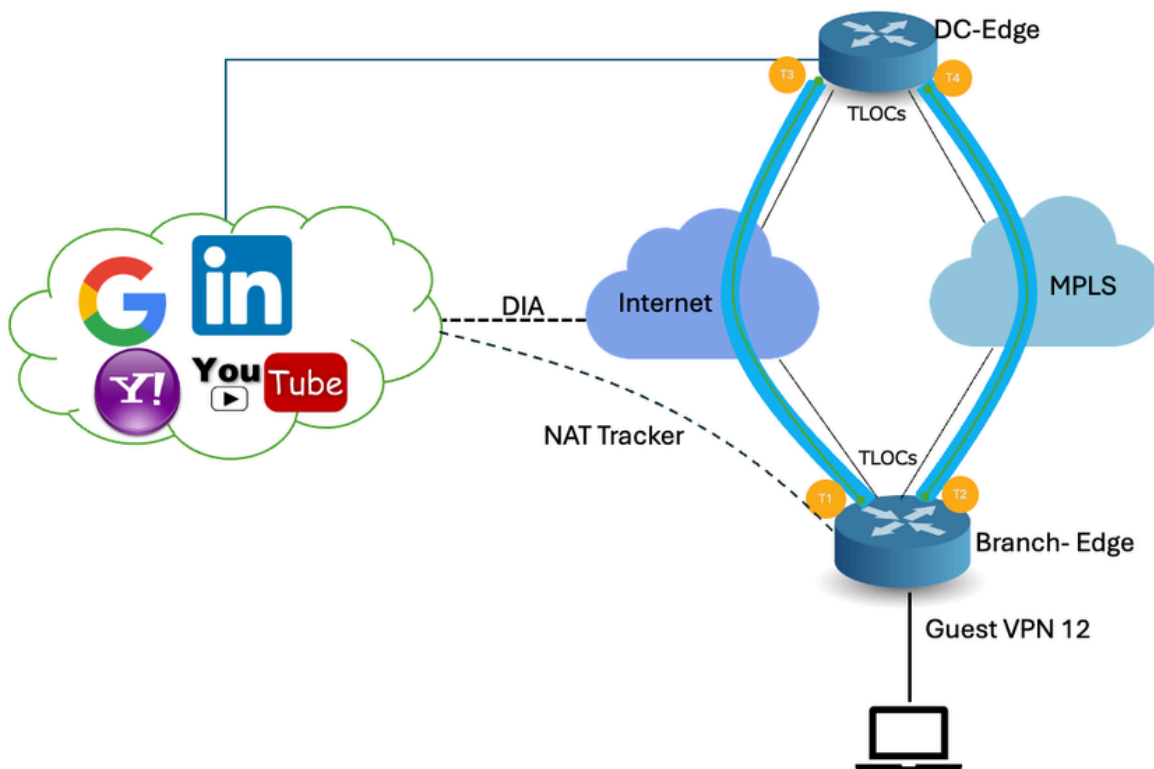
You can configure the NAT DIA tracker for the these interfaces:

- Cellular Interfaces
- Ethernet Interfaces
- Ethernet (PPPoE) Interfaces
- Subinterfaces
- DSL Dialer Interfaces (PPPoE and PPPoA)

Note: IPv6 NAT DIA tracker is supported only on physical and subinterfaces of Ethernet interfaces.

Configure

Network Diagram



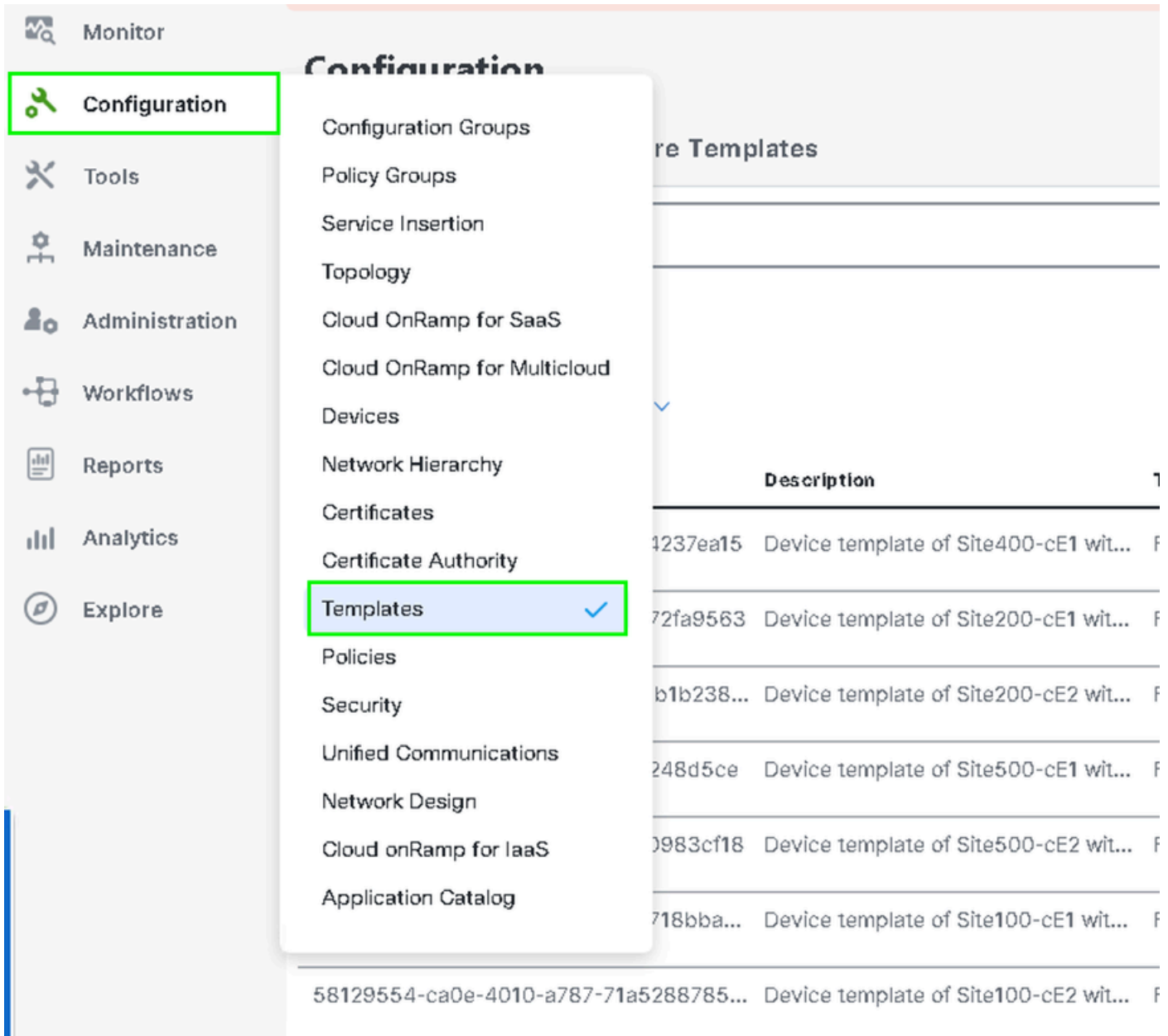
Configurations

The DIA tracker helps determine if the internet or external network has become unavailable. The NAT DIA Tracking feature is useful when NAT is enabled on a transport interface in VPN 0 to allow data traffic from the router to exit directly to the internet.

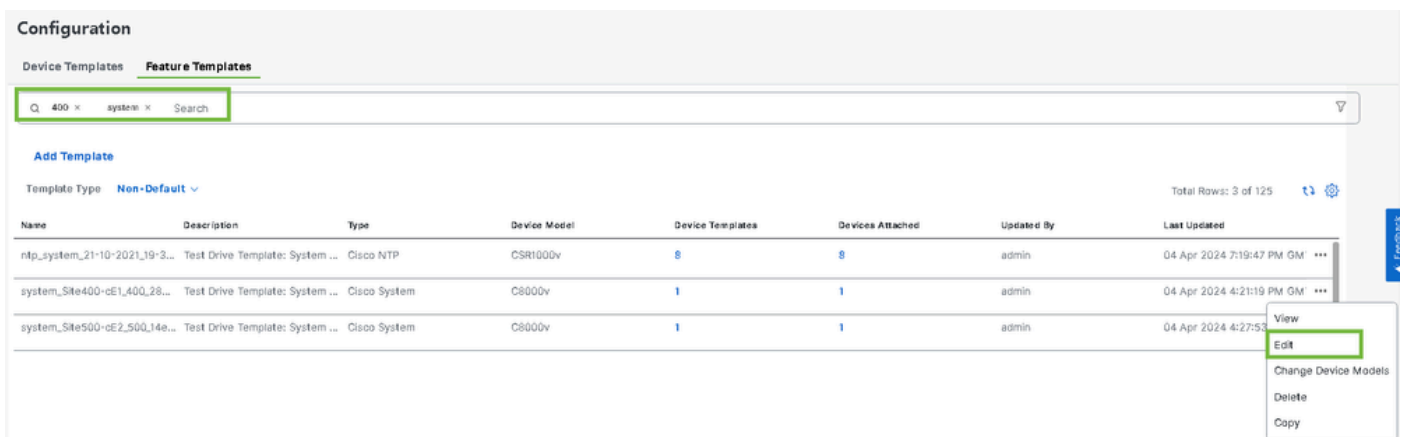
If the internet or external network becomes unavailable, the router continues to forward traffic based on the NAT route in the service VPN. Traffic that is forwarded to the internet gets dropped. To prevent the internet-bound traffic from being dropped, configure the DIA tracker on the edge router to track the status of the transport interface. The tracker periodically probes the interface to determine the status of the internet and return the data to the attach points that are associated with the tracker.

Step 1. Configure NAT DIA Tracker

On the Cisco SD-WAN Manager menu, navigate to **Configuration > Templates**.



Click **Feature Templates**. Search for the **Cisco System feature template** in the search bar, click the **three dots (...)**, and click **Edit** to modify.



In the System feature template, click **Tracker**.

Configuration

Device Templates **Feature Templates**

Feature Template > Cisco System > system_Site400-cE1_400_288e91b4-e59e-4af4-92f8-847b4237ea15_04-04-2024_16-21-17

Device Type C8000v

Template Name* system_Site400-cE1_400_288e91b4-e59e-4af4

Description* Test Drive Template: System feature of Site400

Basic Configuration GPS **Tracker** Advanced

BASIC CONFIGURATION

Click **New Endpoint Tracker** to configure the tracker parameters.

Tracker

TRACKERS TRACKER GROUPS

New Endpoint Tracker

Optional	Name	Threshold	Interval	Multiplier	Tracker Type
No data available					

Enter the tracker parameters and click **Add**.

Name: Name of the tracker. The name can be up to 128 alphanumeric characters. You can configure up to eight trackers.

Threshold: Duration to wait for the probe to return a response before declaring that the transport interface is down. Range: 100 to 1000 milliseconds. Default: 300 milliseconds.

Interval: Frequency at which a probe is sent to determine the status of the transport interface. Range: 20 to 600 seconds. Default: 60 seconds (1 minute).

Multiplier: Number of times a probe can be resent before declaring that the transport interface is down. Range: 1 to 10. Default: 3.

Tracker Type: Choose Interface to configure the DIA tracker.

End Point Type: You can select IP address or DNS Name or URL.

End Point DNS Name: DNS name of the end point. This is the destination in the internet to which the router sends probes to determine the status of the transport interface.

Click drop-down and select **Global** to change any default value.

Tracker

TRACKERS TRACKER GROUPS

New Endpoint Tracker

Name

Threshold

Interval
 Device Specific >
 Default

Multiplier

Tracker Type

Endpoint Type IP Address DNS Name URL

Endpoint DNS Name

Cancel

Click **Update**.

Tracker

TRACKERS TRACKER GROUPS

New Endpoint Tracker

Optional	Name	Threshold	Interval	Multiplier	Tracker Type	Action
<input type="checkbox"/>	<input type="text" value="tracker1"/>	<input type="text" value="100"/>	<input type="text" value="30"/>	<input type="text" value="3"/>	<input type="text" value="interface"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

New Object Tracker

Mark as Optional Row

Tracker Type Interface SIG Route

Object ID

Interface

Cancel



Note: Ensure that you have configured two single endpoint trackers before configuring a tracker group.

Click **Next**.

Device Template | 288e91b4-e59e-4af4-92f8-847b4237ea15

Q Search Total Rows: 1

S...	Chassis Number	System IP	Hostname	Prefix(0.0.0.0/0)	Address(192.168.1.1)	Interface Name(GigabitEthernet8)	IPv4 Address/ prefix-k
✓	C8K08B43DFE-2350-F2B2-E8E2-F80...		Site400-cE1	0.0.0.0/0		GigabitEthernet8	...

Next
Cancel

Click devices, and make sure the config is correct. Click **Config Diff** and **Side by Side Diff**.
Click **Configure Devices**.

Device Template
288e91b4-e59e-4af4-9...

Total
1

Device list (Total: 1 devices)

Filter/Search

C8K-08B43DFE-2350-F2B2-E8E2-F8CF3EDDB887
Site400-cE1|1.1.0.1

Configure Devi...

Config Preview
Config Diff

```

system
ztp-status          in-progress
device-model        vedge-C8000V
gps-location latitude 19.04674
gps-location longitude 72.85223
system-ip
overlay-id          1
site-id             400
no transport-gateway enable
port-offset         0
control-session-pps 300
admin-tech-on-failure
sp-organization-name Viptela-POC-Tool
organization-name   Viptela-POC-Tool
                    
```


333	no crypto ikev2 diagnose error	333	endpoint-tracker tracker1
334	no crypto isakmp diagnose error	334	tracker-type interface
335	no network-clock revertive	335	endpoint-dns-name www.cisco.com
336	snmp-server ifindex persist	336	threshold 100
337	fhrp version vrrp v2	337	interval 30
338	line con 0	338	!
339	speed 115200	339	no crypto ikev2 diagnose error
340	stopbits 1	340	no crypto isakmp diagnose error
341	!	341	no network-clock revertive
342	line vty 0 4	342	snmp-server ifindex persist
343	transport input ssh	343	fhrp version vrrp v2
344	!	344	line con 0
345	line vty 5 80	345	speed 115200
		346	stopbits 1
		347	!
		348	line vty 0 4
		349	transport input ssh
		350	!
		351	line vty 5 80

Back Configure Devices Cancel

vManage successfully configured the device template with the tracker configuration.

Push Feature Template Configuration | ● Validation success

Total Task: 1 | Success : 1

Device Group (1)

Status	Message	Chassis Number
● Success	Template successfully attac...	

View Logs

Host: Site400-cE1()

Site ID: 400

Device: C8000v

Model:

[29-Jul-2024 7:50:20 PDT] Configuring device with feature template:

[29-Jul-2024 7:50:21 PDT] Checking and creating device in Manager

[29-Jul-2024 7:50:22 PDT] Generating configuration from template

[29-Jul-2024 7:50:29 PDT] Device is online

[29-Jul-2024 7:50:29 PDT] Updating device configuration in Manager

[29-Jul-2024 7:50:29 PDT] Sending configuration to device

[29-Jul-2024 7:50:36 PDT] Successfully notified device to pull configuration

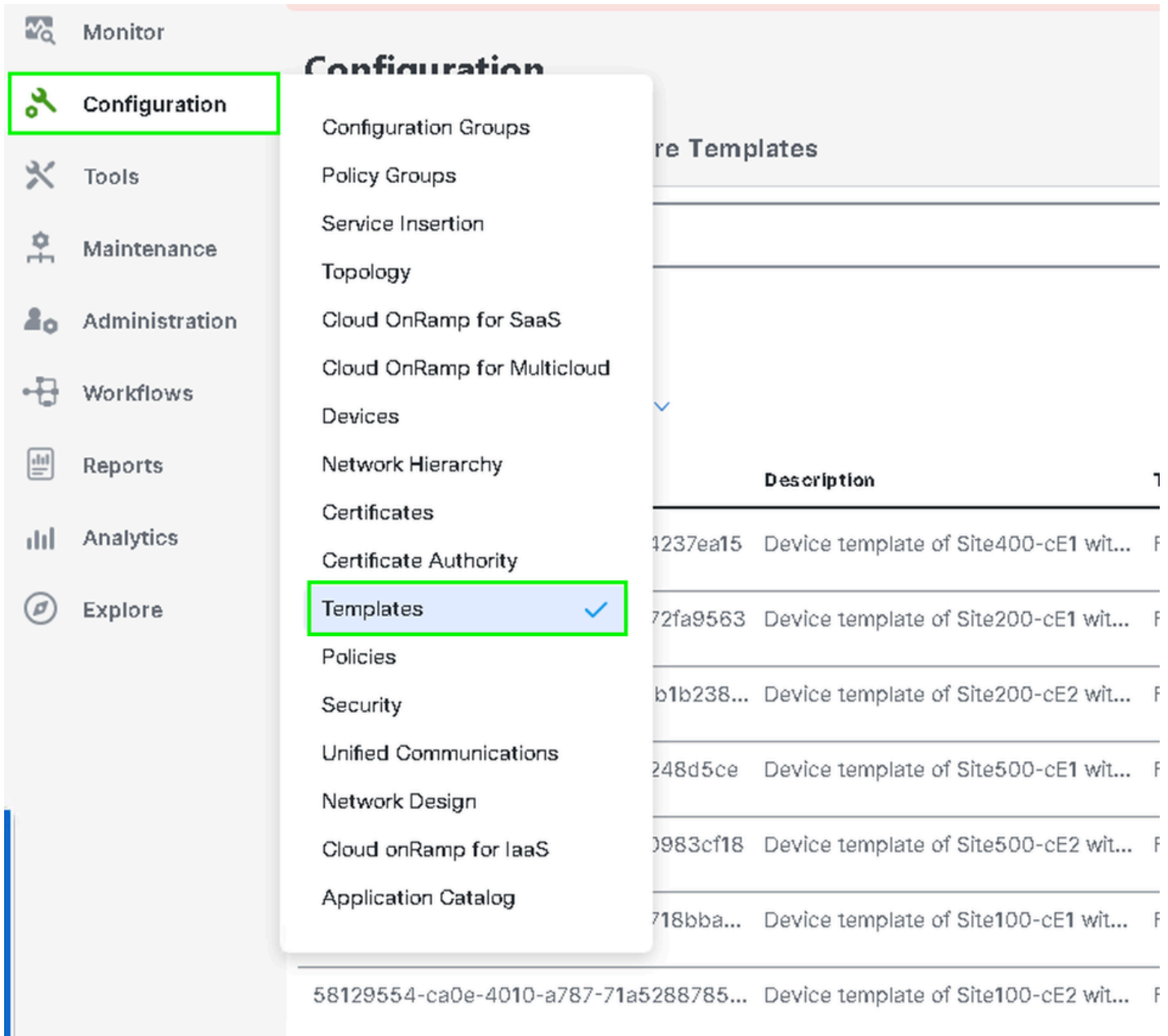
[29-Jul-2024 7:50:36 PDT] Device has pulled the configuration

[29-Jul-2024 7:50:39 PDT] Device: Config applied successfully

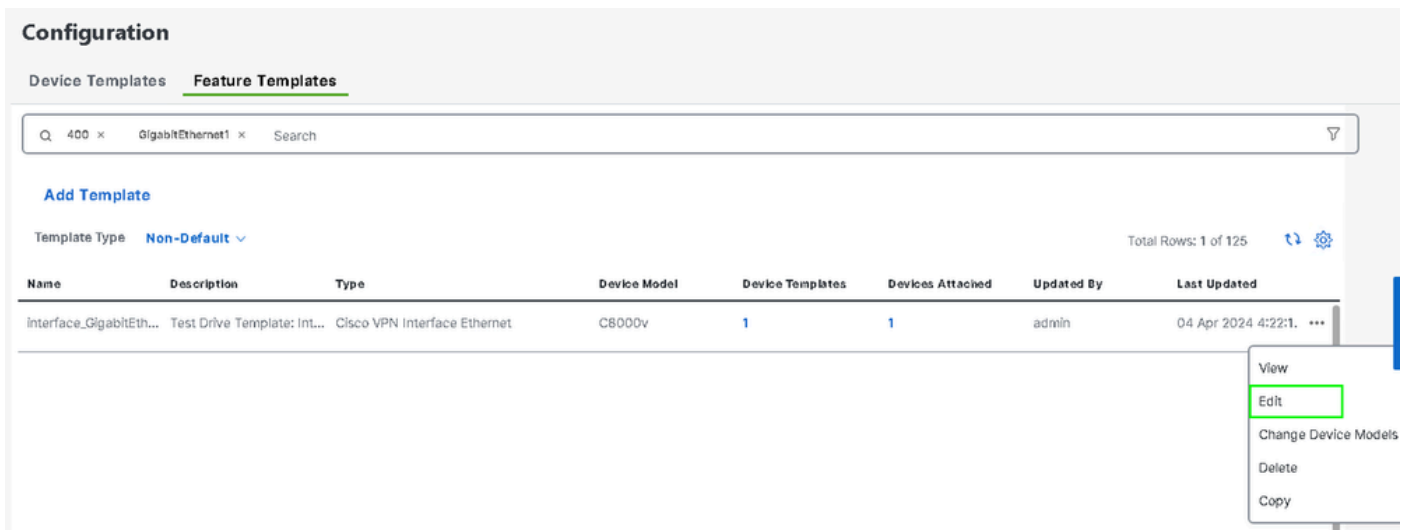
[29-Jul-2024 7:50:39 PDT] Template successfully attached to device

Step 2. Bind the Tracker to Transport Interface

On the Cisco SD-WAN Manager menu, navigate to **Configuration > Templates**.



Search for the **NAT Transport Interface feature template** in the search bar, click the **three dots (...)**, and click **Edit** to modify.



Click the **Advanced** tab.

Configuration

Device Templates **Feature Templates**

Feature Template > Cisco VPN Interface Ethernet > interface_GigabitEthernet1_04-04-2024_16-21-18

Device Type: C8000v

Template Name*: interface_GigabitEthernet1_04-04-2024_16-21-18

Description*: Test Drive Template: Interface GigabitEthernet1 fe

Basic Configuration Tunnel NAT VRRP ACL/QoS ARP TrustSec **Advanced**

To add the tracker name on the Tracker, select **Global** from the drop-down menu.

Tracker

ICMP/ICMPv6 Redirect Disable Off

GRE tunnel source IP

Global

Device Specific >

Default

Enter the **tracker name** that you created in the system template and click **Update**.

Tracker: tracker1

ICMP/ICMPv6 Redirect Disable: On

GRE tunnel source IP

Xconnect

Cancel **Update**

Click **Next**.

Device Template | 288e91b4-e59e-4af4-92f8-847b4237ea15

Q Search

Total Rows: 1

S...	Chassis Number	System IP	Hostname	Prefix(0.0.0.0/0)	Address(192.168.1.1)	Interface Name(GigabitEthernet8)	IPv4 Address/ prefix-k
✓	C8K08B43DFE-2350-F2B2-E8E2-F80...		Site400-cE1	0.0.0.0/0		GigabitEthernet8	...

Next Cancel

Click devices, and make sure the config is correct. Click **Config Diff** and **Side by Side Diff**.
Click **Configure Devices**.

Device Template
288e91b4-e59e-4af4-9...

Total
1

Device list (Total: 1 devices)

Filter/Search

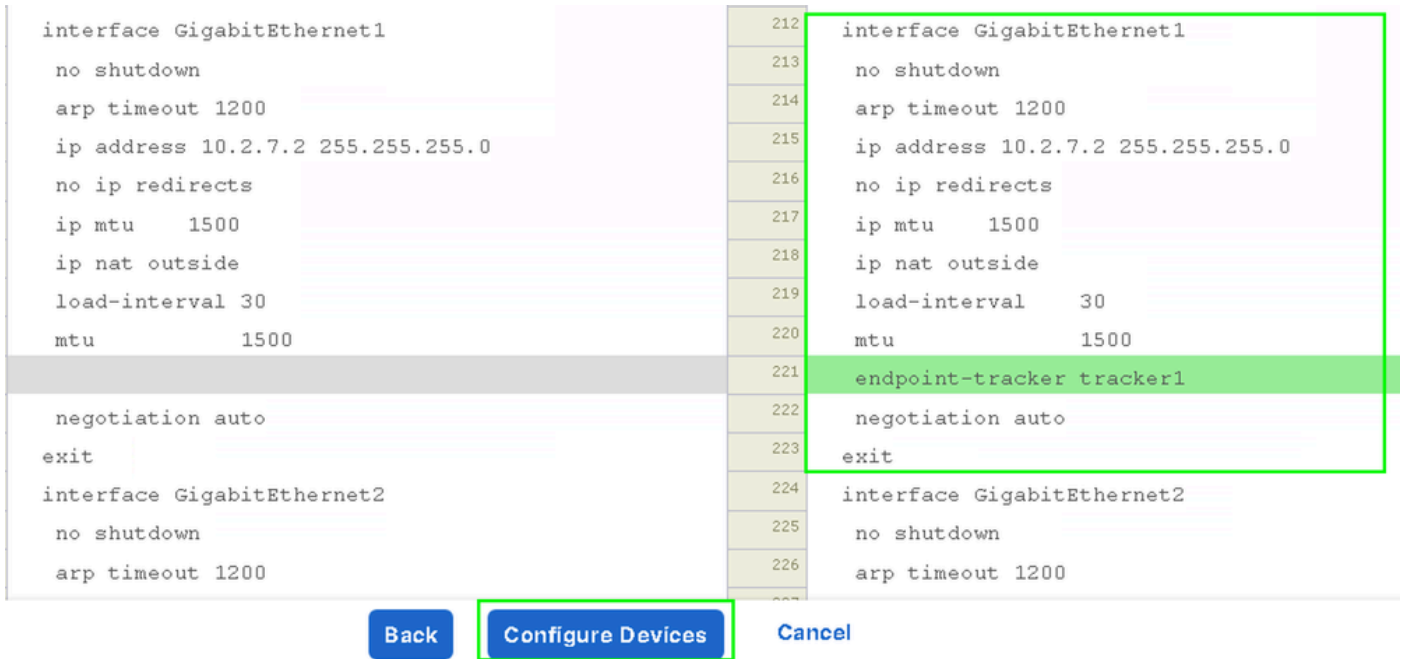
C8K-08B43DFE-2350-F2B2-E8E2-F80F3EDDB887
Site400-cE1|1.1.40.1

Configure Devi...

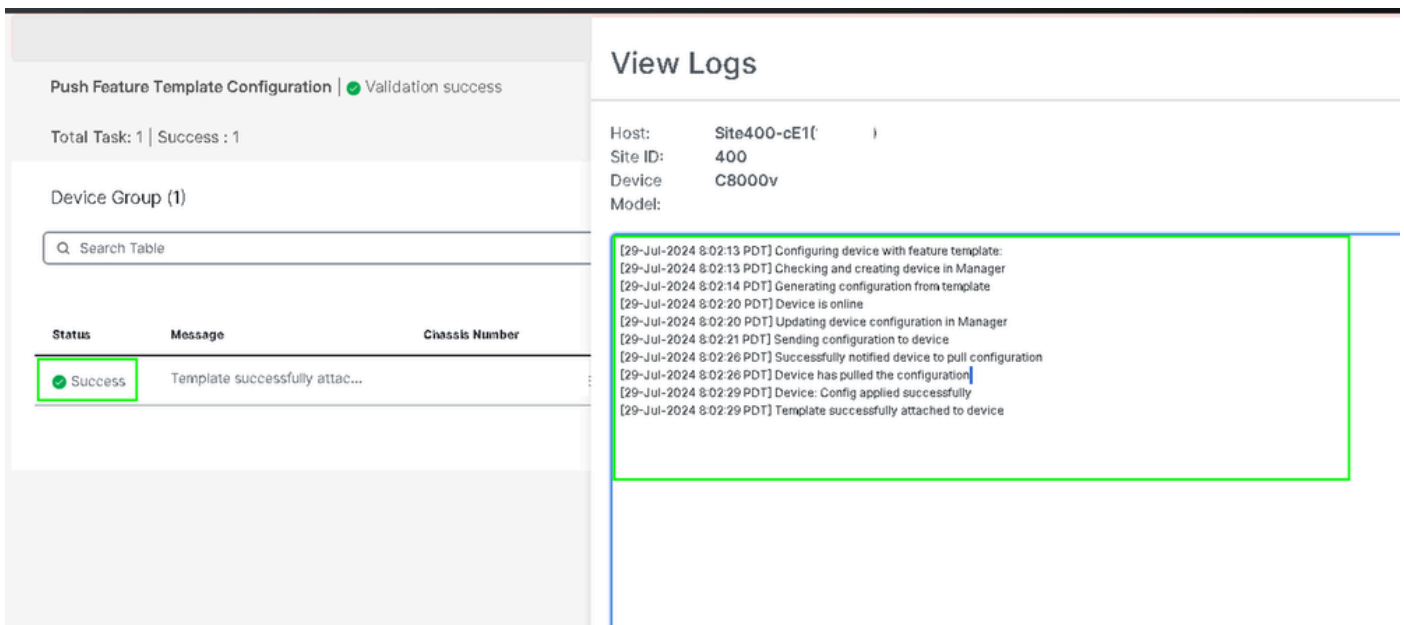
Config Preview Config Diff

```

system
 ztp-status          in-progress
 device-model        vedge-C8000V
 gps-location latitude 19.04674
 gps-location longitude 72.85223
 system-ip
 overlay-id          1
 site-id             400
 no transport-gateway enable
 port-offset         0
 control-session-pps 300
 admin-tech-on-failure
 sp-organization-name Viptela-POC-Tool
 organization-name   Viptela-POC-Tool
 port-hop
 track-transport
 track-default-gateway
 console-baud-rate   115200
 no on-demand enable
 on-demand idle-timeout 10
          
```



vManage has successfully configured the device template.



Step 3. Enable NAT Fallback on Existing DIA Policy

Cisco IOS XE Catalyst SD-WAN devices support the NAT fallback feature for Direct Internet Access (DIA). NAT fallback feature allows traffic to use an alternative path if the primary NAT path fails. This ensures continuous connectivity even if there are issues with the primary NAT configuration.

To enable NAT fallback using Cisco SD-WAN Manager:

From the Cisco SD-WAN Manager menu, navigate to **Configuration > Policy**.



Monitor



Configuration



Tools



Maintenance



Administration



Workflows



Reports



Analytics



Explore

Configuration Groups

Policy Groups

Service Insertion

Topology

Cloud OnRamp for SaaS

Cloud OnRamp for Multicloud

Devices

Network Hierarchy

Certificates

Certificate Authority

Templates

Policies ✓

Security

Unified Communications

Network Design

Cloud onRamp for IaaS

Application Catalog

VIP10_DC_Preference

VIP16_QoS_Classify_SIP

```

interface GigabitEthernet1
ip address 10.2.7.2 255.255.255.0
no ip redirects
ip nat outside
load-interval 30
negotiation auto

endpoint-tracker tracker1

arp timeout 1200
end

```

```

Site400-cE1#show sdwan running-config | sec endpoint
endpoint-tracker tracker1
tracker-type interface
endpoint-dns-name www.cisco.com
threshold 100
interval 30

```

The output shows how to verify the tracker status using the commands **show endpoint-tracker** and **show endpoint-tracker GigabitEthernet1**.

```

Site400-cE1#show endpoint-tracker
Interface      Record Name  Status  Address Family  RTT in msec  Probe ID  Next Hop
GigabitEthernet1  tracker1    Up      IPv4             8             6         10.2.7.1

Site400-cE1#show endpoint-tracker interface GigabitEthernet1
Interface      Record Name  Status  Address Family  RTT in msec  Probe ID  Next Hop
GigabitEthernet1  tracker1    Up      IPv4             8             6         10.2.7.1

```

The output shows timer-related information about the tracker to help debug tracker-related issues, if any:

```

Site400-cE1#show endpoint-tracker records
Record Name  Endpoint      EndPoint Type  Threshold(ms)  Multiplier  Interval(s)  Tracker-Type
tracker1     www.cisco.com  DNS_NAME      100            3           30           interface

```

The output of **show ip sla summary** command.

```

Site400-cE1#show ip sla summary
IPSLAs Latest Operation Summary
Codes: * active, ^ inactive, ~ pending
All Stats are in milliseconds. Stats with u are in microseconds

ID  Type  Destination  Stats  Return  Last
      Code  Run

```

```
-----  
*5  dns      8.8.8.8      RTT=16  OK    16 seconds ago  
*6  http     x.x.x.x      RTT=15  OK    3 seconds ago
```

Verify the fallback configuration applied on the device using the command **show sdwan policy from-vsmart**.

```
<#root>
```

```
Site400-cE1#show sdwan policy from-vsmart  
from-vsmart data-policy _VPN12_VPN12_DIA  
direction from-service  
vpn-list VPN12  
sequence 1  
match  
source-data-prefix-list Site400_AllVPN_Prefixes  
action accept  
nat use-vpn 0
```

```
nat fallback
```

```
no nat bypass  
default-action drop
```

Troubleshooting Tracker

Enable these debugs on the edge device to check how the router sends probes to determine the status of the transport interface.

- To monitor how the router sends probes and determines the status of the transport interfaces use the **debug platform software sdwan tracker** command which is supported until the 17.12.x release.
- From 17.13.x onwards, to monitor the probes logs, enable these debugs.
 - set platform software trace ios R0 sdwanrp-tracker debug
 - set platform software trace ios R0 sdwanrp-cfg debug
- To check the logs related to IP SLA operations error and trace, enable these debugs. These logs show if IP SLA operations are failing.
 - debug ip sla trace
 - debug ip sla error

Run these show and monitor commands to check the debug logs:

- **show logging profile sdwan internal**
- **monitor logging profile sdwan internal**

```
Site400-cE1#show logging profile sdwan internal  
Logging display requested on 2024/08/13 08:10:45 (PDT) for Hostname: [Site400-cE1], Model: [C8000V], Ve
```

```
Displaying logs from the last 0 days, 0 hours, 10 minutes, 0 seconds  
executing cmd on chassis local ...  
Unified Decoder Library Init .. DONE
```


Found 1 UTF Streams

2024/08/13 08:02:28.408998337 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 s
2024/08/13 08:02:28.409061529 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.409086404 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE: Sla sync
2024/08/13 08:02:28.409160541 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE: Sla sync
2024/08/13 08:02:28.409182208 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 St
2024/08/13 08:02:28.409197024 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 Qu
2024/08/13 08:02:28.409215496 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 DN
2024/08/13 08:02:28.409242243 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 So
2024/08/13 08:02:28.409274690 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 De
2024/08/13 08:02:28.409298157 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 So
2024/08/13 08:02:28.409377223 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 Ne
2024/08/13 08:02:28.409391034 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 Re
2024/08/13 08:02:28.409434969 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 ac
2024/08/13 08:02:28.409525831 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 Pr
2024/08/13 08:02:28.426966448 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 Qu
2024/08/13 08:02:28.427004143 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 Re
2024/08/13 08:02:28.427029754 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 RT
2024/08/13 08:02:28.427161550 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.427177727 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.427188035 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.427199147 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.427208941 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:10 IP
2024/08/13 08:02:28.427219960 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427238042 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427301952 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427316275 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427326235 {iosrp_R0-0}{255}: [sdwanrp-tracker] [17432]: (debug): Received IPSLA sta
2024/08/13 08:02:28.427328425 {iosrp_R0-0}{255}: [sdwanrp-tracker] [17432]: (debug): DNS status callbac
2024/08/13 08:02:28.427341452 {iosrp_R0-0}{255}: [sdwanrp-tracker] [17432]: (debug): DNS query valid TR
2024/08/13 08:02:28.427343152 {iosrp_R0-0}{255}: [sdwanrp-tracker] [17432]: (debug): DNS resolved addre
2024/08/13 08:02:28.427344332 {iosrp_R0-0}{255}: [sdwanrp-tracker] [17432]: (debug): DNS probe handler
2024/08/13 08:02:28.427349194 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.427359268 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427370416 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427555382 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427565670 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.427577691 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427588947 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427600567 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427611465 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE: Common St
2024/08/13 08:02:28.427620724 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:28.427645035 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:10 S
2024/08/13 08:02:55.599896668 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:3 s
2024/08/13 08:02:55.599966240 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-INFRA_TRACE:OPER:3 St
2024/08/13 08:02:55.599981173 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:3 Sta
2024/08/13 08:02:55.600045761 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:3 Nex
2024/08/13 08:02:55.600111585 {iosrp_R0-0}{255}: [buginf] [17432]: (debug): IPSLA-OPER_TRACE:OPER:3 DNS
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[Implement Direct Internet Access \(DIA\) for SD-WAN](#)

[Cisco Catalyst SD-WAN NAT Configuration Guide](#)

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