

The background features a vibrant, abstract design with a color gradient from dark blue on the left to bright yellow and white on the right. The design consists of overlapping, wavy horizontal bands and a radial pattern of lines emanating from a bright white point on the right side, creating a sense of motion and energy.

CISCO *Live!*

Let's go



The bridge to possible

Power Your WAN with Cisco SD-Routing

Modernizing Routing for Digital Transformation

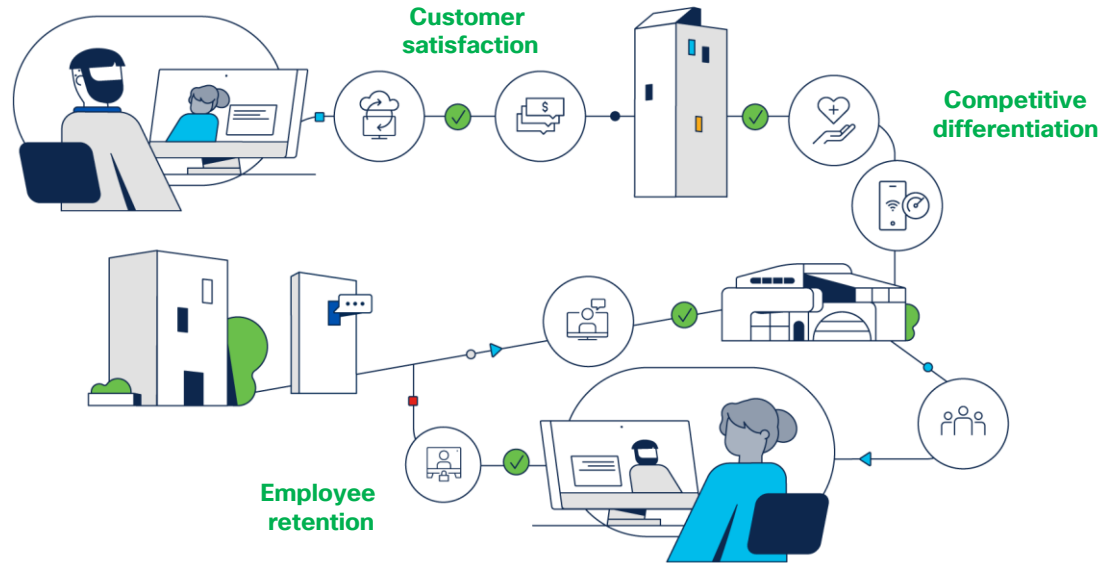
Alex Yeung, Leader, Technical Marketing

David Roten, Technical Leader, Technical Marketing

CISCO *Live!*

BRKENT-1039

Now more than ever, experiences matter



Power Your WAN with Cisco SD-Routing

- Scan the QR code to learn more about how Cisco SD-Routing can modernize routing for your network
- Visit the Catalyst SD-Routing/SD-WAN demo booths in World of Solutions

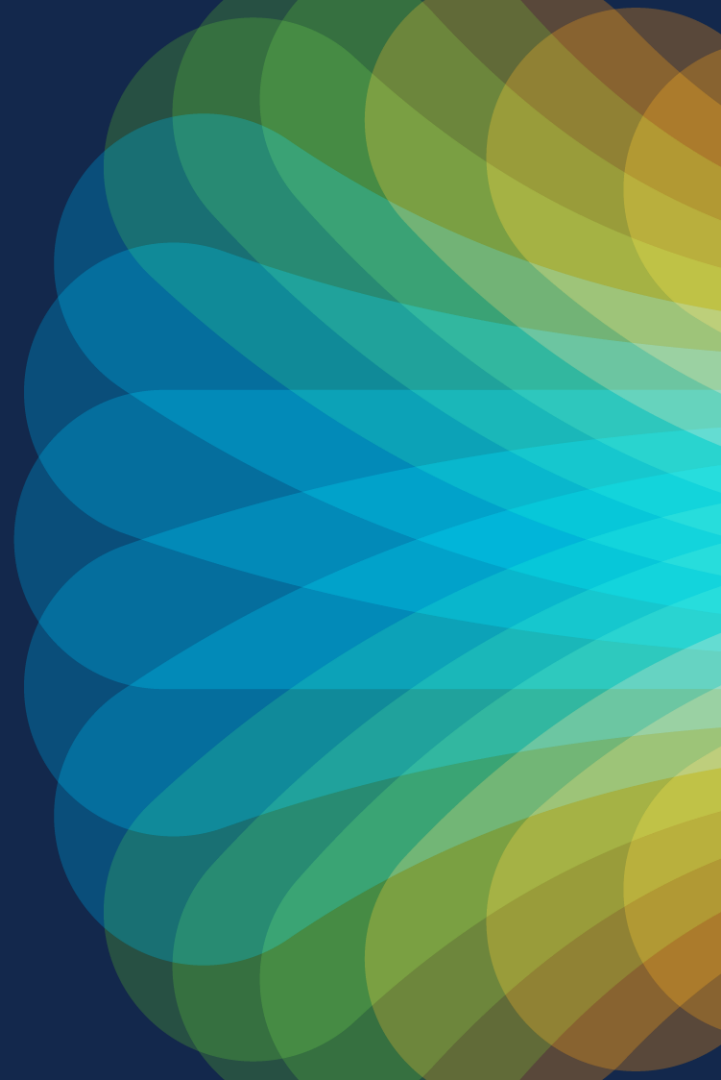
CISCO *Live!*



Agenda

- Introduction
- What is SD-Routing
- SD-Routing Use Cases
- Features & Roadmap
- Licensing
- Demo
- Takeaway

Introduction



Why do organizations need infrastructure transformation today?



Cloud adoption and the future of work



Depend on connections across IaaS, SaaS, PaaS



Growing scale escalates network, security demands

To keep pace, organizations must transform to:



Connect users everywhere to applications anywhere



Secure users' access and provide protection from threats

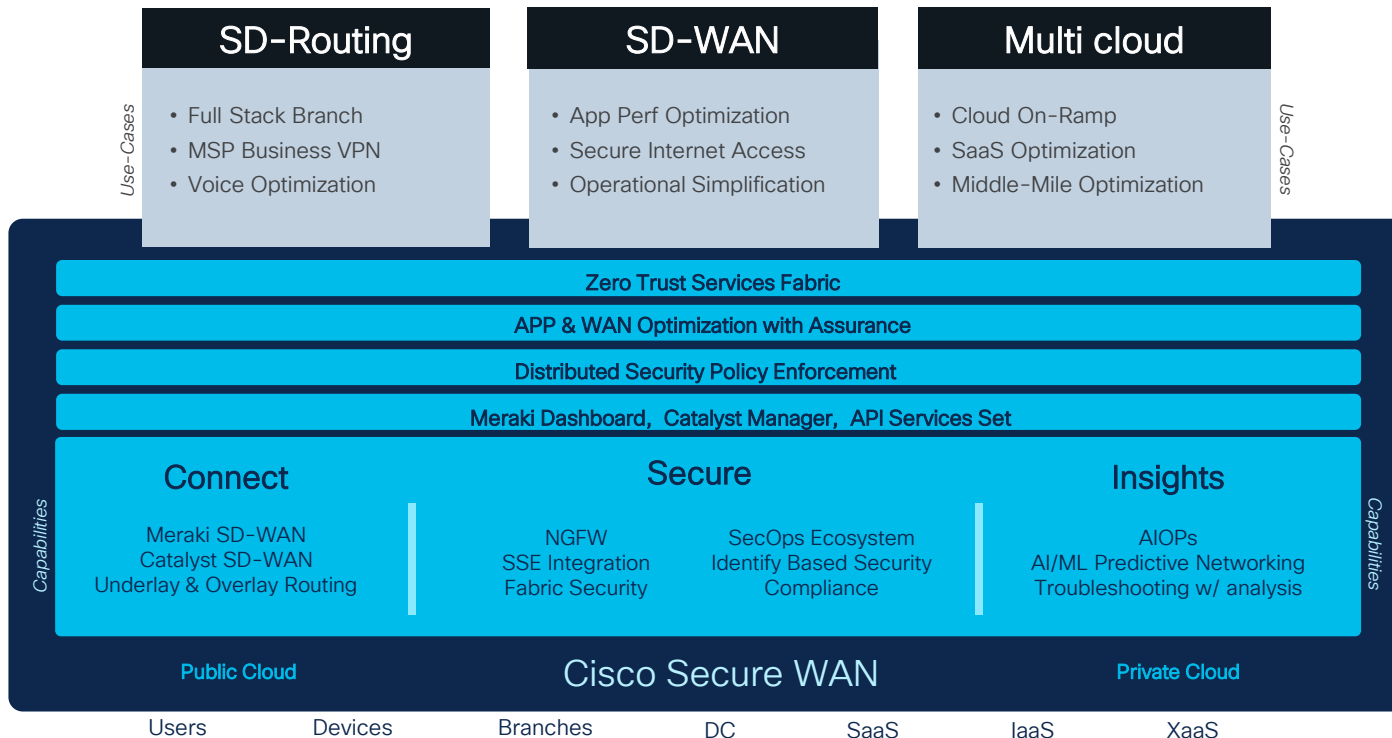


Automate network operations and provide actionable insights

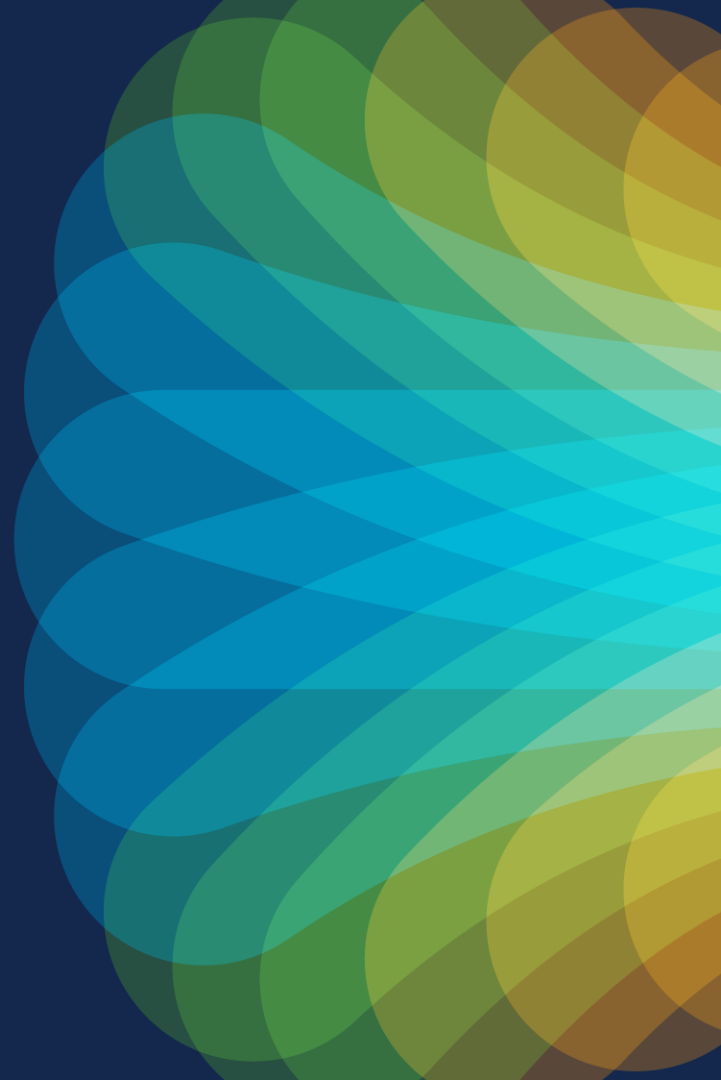
CISCO *Live!*

Cisco Secure WAN Edge

*Deliver a Secure WAN Edge for Connecting users, places and things to applications anywhere.
Branches, Campus, Data Center, Cloud Edge, Home / Coffee Shops*

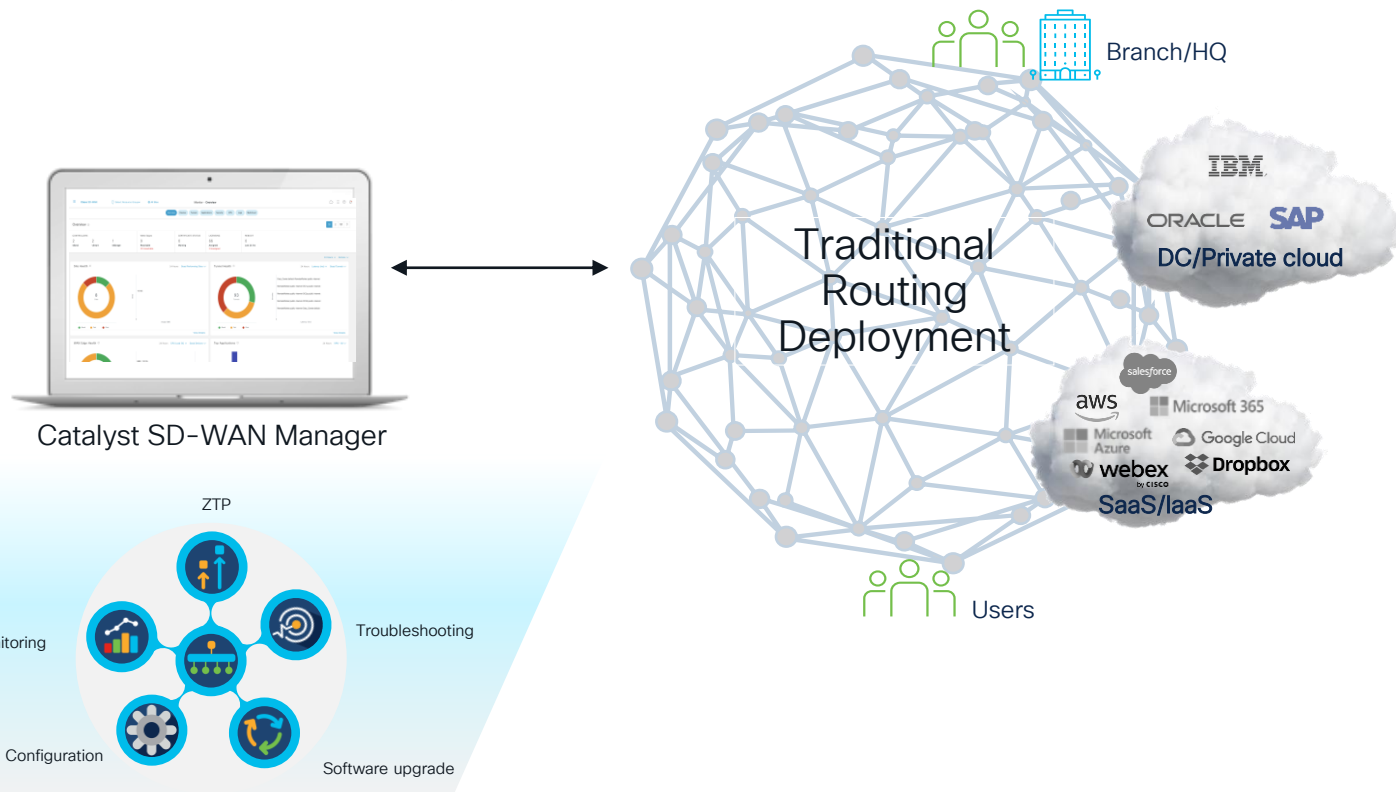


What is SD-Routing



Introducing SD-Routing

Transform the user experience in routing



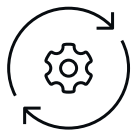
Simplicity and Agility

OpEx Reduction

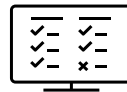
Future-Ready WAN

Multi-layered Security

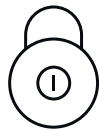
SD-Routing Key Capabilities



Device Lifecycle Management



Monitoring and Assurance

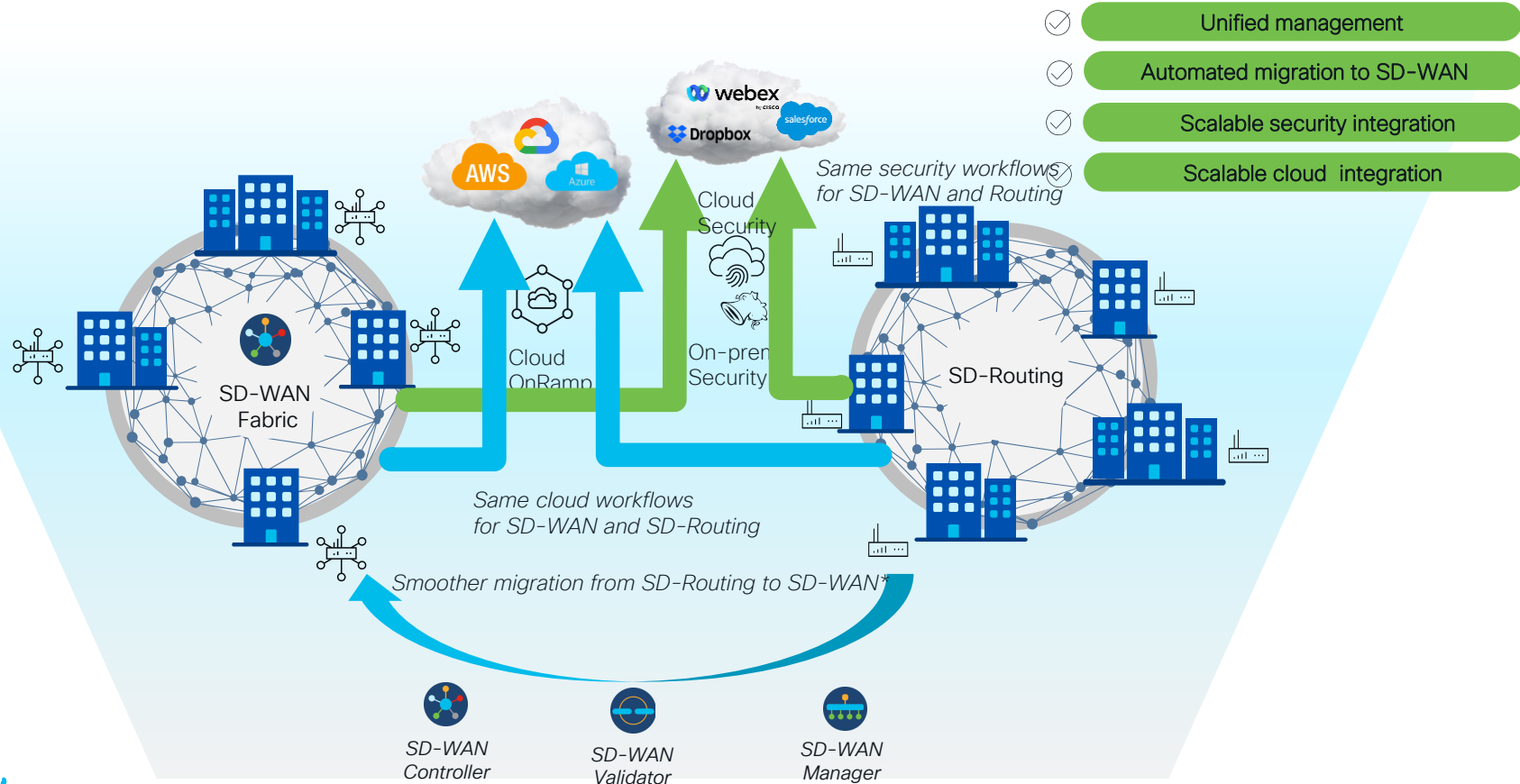


Software-defined Security
Policy



Software-defined Multi-cloud
Integration

Single Management Platform for your WAN



SD-Routing FAQs

Can SD-Routing co-exist with SD-WAN ?

Yes, same set of controllers can be used to manage SD-WAN and SD-Routing.

Is SD-Routing yet another mode like Autonomous mode and Controller mode on IOS-XE routing devices ?

SD-Routing can be enabled on a device working in Autonomous mode. So, SD-Routing provides add-on capabilities on top of Autonomous mode.

Which routing platforms will be supported with SD-Routing?

Catalyst 8000 Series, ISR4000 Series, ISR1000 Series, ASR1000 Series (ASR1001-HX, ASR1002-HX only) are currently supported with SD-Routing.

SD-WAN vs SD-Routing

Architecture Components

SD-WAN deployment



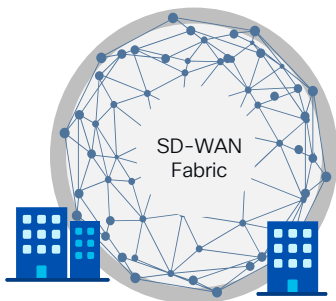
SD-WAN Validator



SD-WAN Manager



SD-WAN Controller



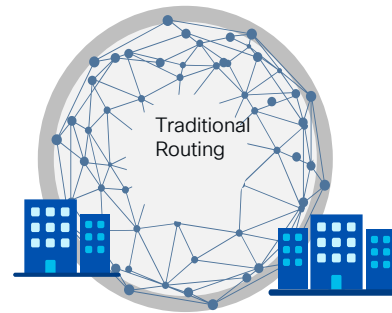
SD-Routing deployment



SD-WAN Validator



SD-WAN Manager



ISR 1000



ISR 4461



Catalyst 8000V



Catalyst 8200 uCPE*



C8300-uCPE*



Catalyst 8200, 8200L



Catalyst 8300



Catalyst 8500, 8500L



Capabilities: Catalyst SD-WAN vs SD-Routing

SD-Routing

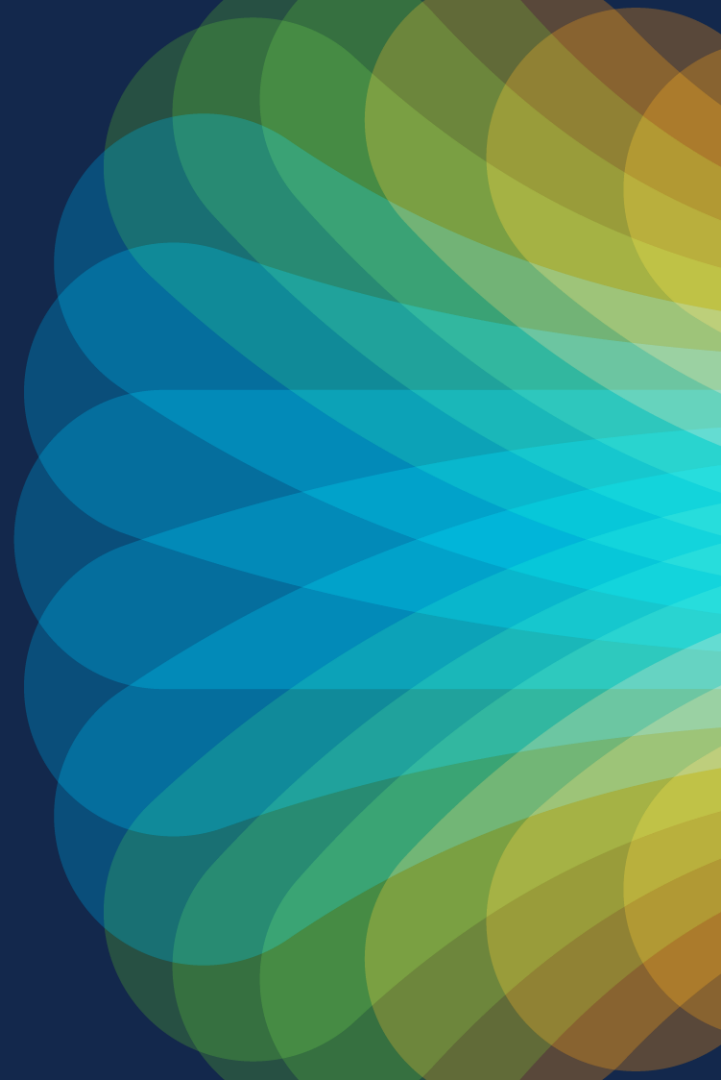
- Device Lifecycle management
- Monitoring (application, device stats, etc)
- Configuration support for all features in WAN branch and aggregation use case*
- Security : On-prem security features
- Security : SIG integration *
- Cloud : Site to cloud connectivity
- Migration facilitation *
- More features on upcoming releases

* On the roadmap

Catalyst SD-WAN

- SD-WAN Controller dependent features
 - Automatic fabric/connectivity setup
 - Application Aware Routing with dynamic path selection
 - Control policies – for logical topology and route control
 - Data policies – for data plane manipulation
 - Identity/SGT-based firewall
 - SIG intelligent traffic steering
 - AppQoE – DRE, FEC, Pkt dup, TCP Opt
 - Service chaining
- SDCI – Site to Site, Site to Cloud
- Cloud – Site to Site over CSP backbone
- Cloud OnRamp for SaaS
- Cloud OnRamp for CoLo
- SD-WAN Analytics
- WAN Insights

Use Cases



Use Case 1: Simplified Management

Scenario

Available
Starting in
20.12

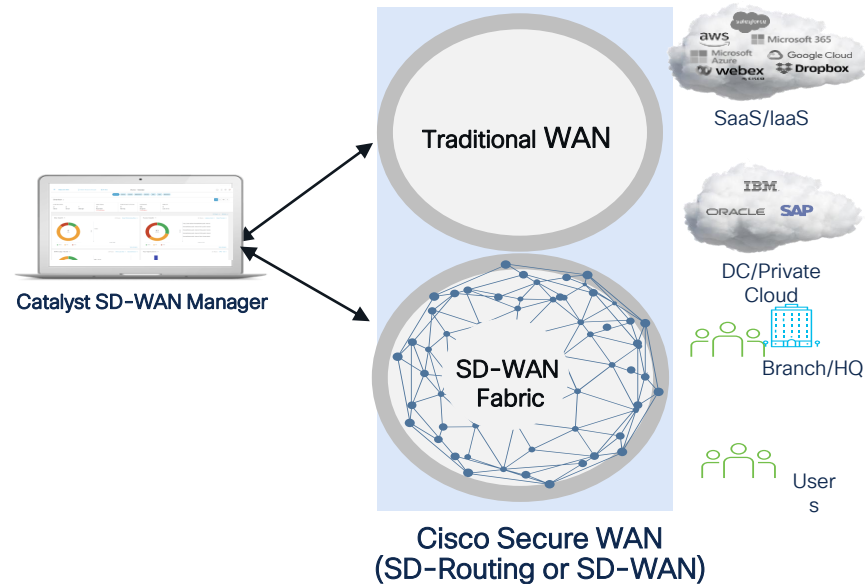
- Management of both Controller mode and Autonomous mode routers via Catalyst SD-WAN Manager.

Goal:

Single NMS to manage all IOS-XE routers

Benefits:

- Simplifies entire network management approach regardless of WAN architecture
- Consistent networking policies across both operating modes
- Reduction in operational cost since same person can manage both environments
- Facilitates cross-domain expertise with consistent dashboards



Use Case 2: Traditional Routing Management

Scenario

Available in
20.13

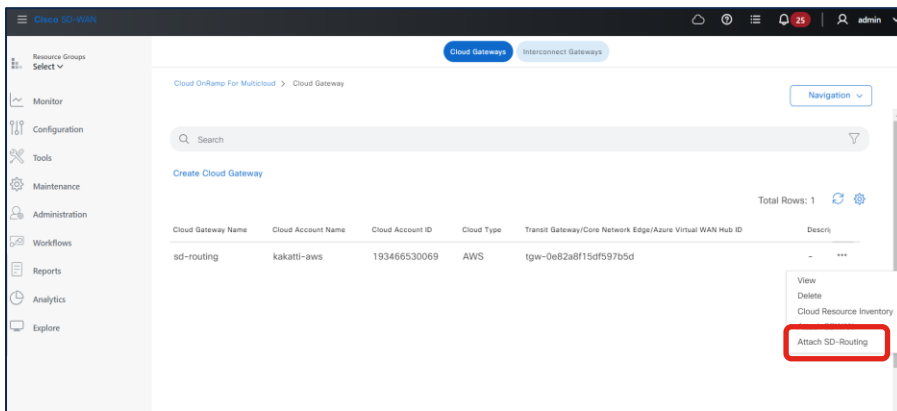
- Traditional routing WAN deployment looking to modernize their full-stack management approach

Goal:

Deploy intuitive, and scalable centralized NMS that can coexist with existing in-house management tools

Benefits:

- Complement DIY with turnkey management solution
- Automate Multi-cloud and SASE connectivity
- Optimize Guided workflows for routine tasks (software upgrades, config update, VPN setup, security policy change)
- Easily pivot to Catalyst SD-WAN when customer is ready



Use Case 3: Distributed Security Policy Enforcement

Available in
20.13

Scenario

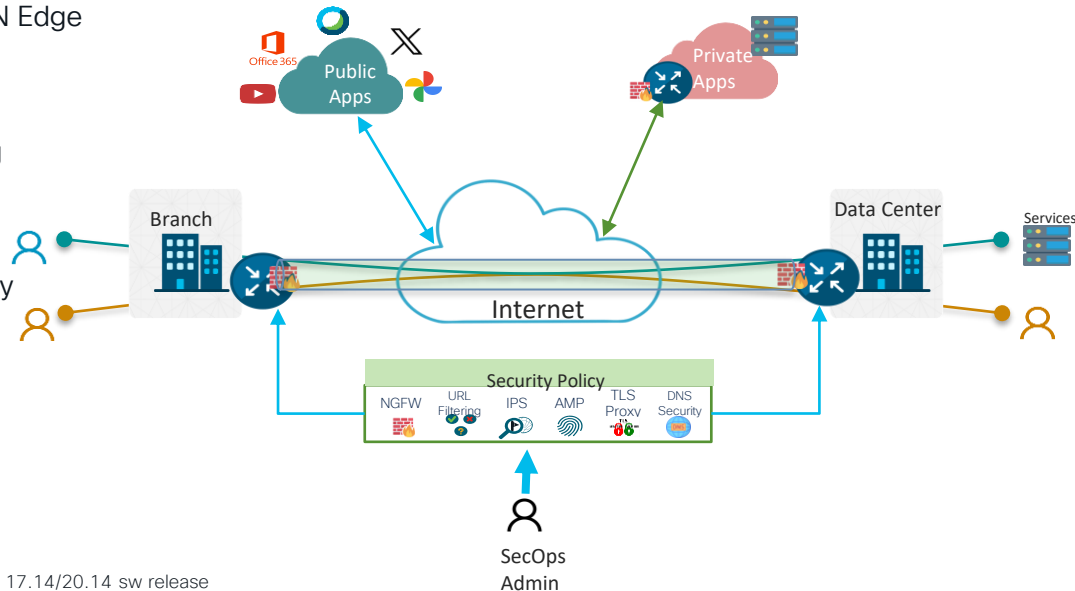
- Managing security policy on a device-by-device bases is inefficient and can cause inconsistency.
- Lack of integration with Cisco architectures that allow dynamic policy (Ex: SGT)

Goal:

Manage and push consistent security policies to WAN Edge devices

Benefits:

- Optimize branch-to-branch performance by using embedded security instead of Cloud
- Reduces costs attached to SIG/SSE* services by enabling embedded security at WAN edge
- Improved app experience and latency reduction by applying local security policies
- Common SecOps dashboard for visibility, monitoring & Reporting, and security threats



* Coming in 17.14/20.14 sw release

Use Case 4: Simplified Migration

Scenario

Available
Starting in
20.12

- Customers may wish to migrate towards a software defined implementation, using a measured approach.

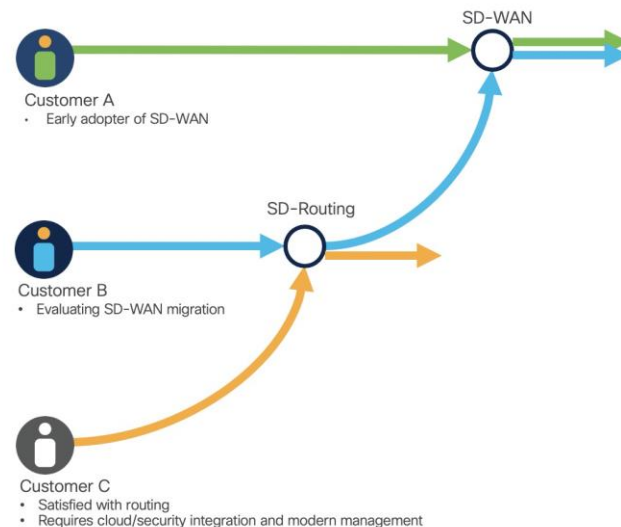
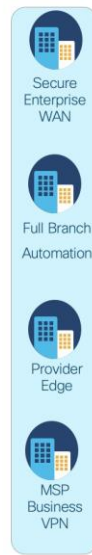
Goal:

Ensure successful SD-WAN migration* by providing proper tooling and support

Benefits:

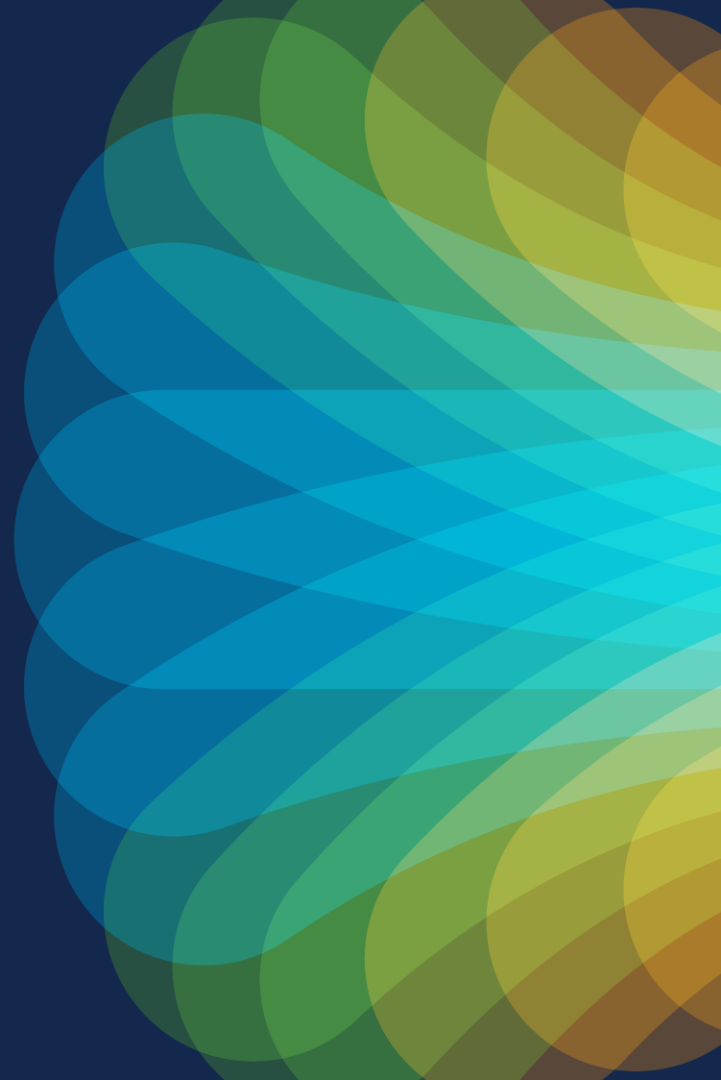
- Gain familiarity with dashboards and UI in traditional routing mode, then migrate when ready
- Aide on-boarding (via ZTP), software lifecycle management, increased visibility and configuration
- Benefit from similar SD-WAN workflows introduce additional automation for SASE and Cloud integration

Customer Use cases



* 20.12 provides migration to SD-Routing. Migration to SD-WAN from SD-Routing will be added in coming sw releases.

Features & Roadmap



SD-Routing Feature Highlights

IOS XE 17.12 / Catalyst Manager 20.12

SD-WAN Manager support

For autonomous mode routers.

Device onboarding

Establish secure channel between IOS-XE routers (in autonomous mode) and Catalyst Manager.

Device monitoring

CPU, disk, interface status and statistics, notification, alarm, events.

Device troubleshooting

SSH, ping, traceroute.

Software lifecycle management

Multi-tenancy support

IOS XE 17.13 / Catalyst Manager 20.13

Infra enhancements

- Control connection resilience
- App performance monitoring
- Security monitoring
- Scheduled software upgrades

Configuration support

- Parcel based Configuration Groups
- CLI based Configuration Groups

Cloud OnRamp for multi-cloud

- Branch Connect to AWS
- Branch Connect to Azure

Troubleshooting

- Speed test
- Packet capture

Security configuration using policy groups

- NGFW
- UTD (URL-F, IPS/IDS, AMP)

SD-Routing Mode

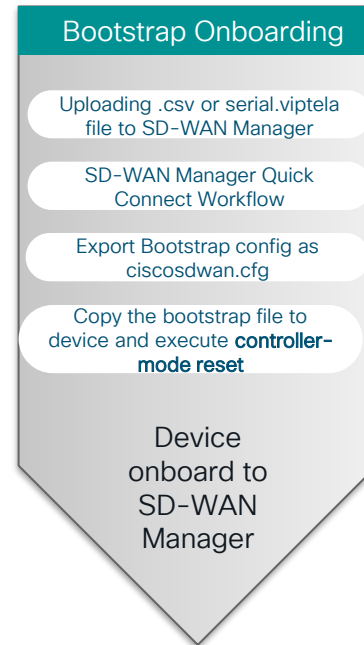
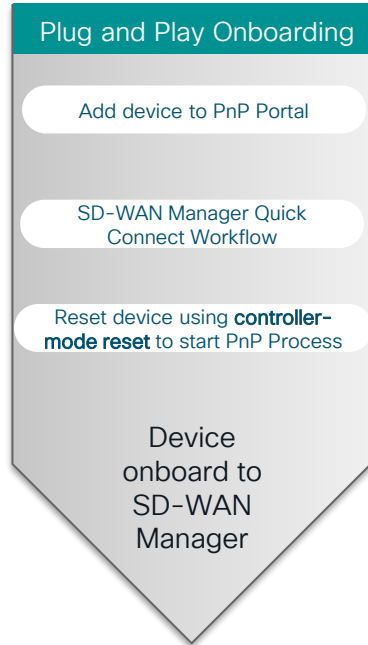
SD-Routing Mode

- Autonomous mode device authenticated by SD-WAN Validator, Managed by SD-WAN Manager
- No control connections to SD-WAN Controller
- Helps with Managing, Monitoring and Troubleshooting all from one place

```
netconf-yang
sd-routing
  organization-name <org_name>
  site-id <site_id>
  system-ip <system_ip>
  vbond ip <vbond_ip>
  vbond port <vond_port>
  wan-interface <wan-interface>
```

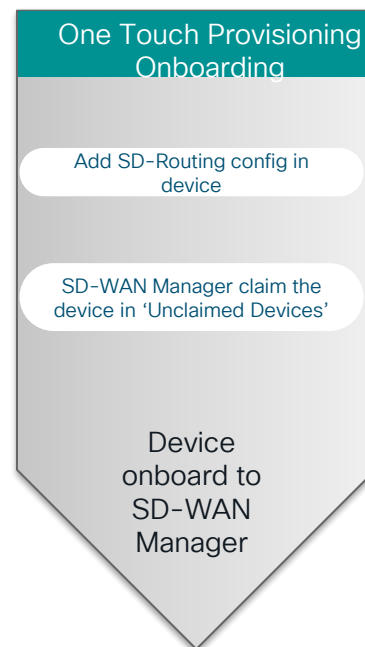
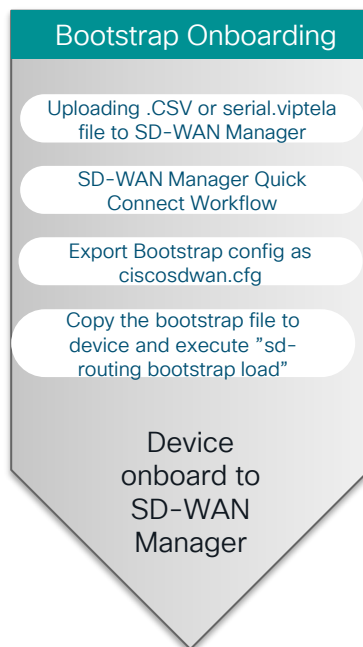
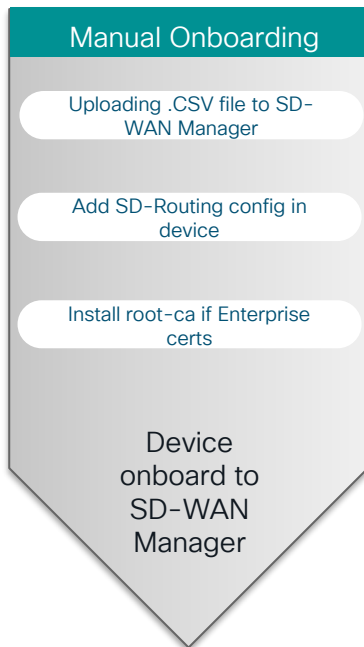
Feature: Onboarding – New Hardware Device

IOS XE17.12



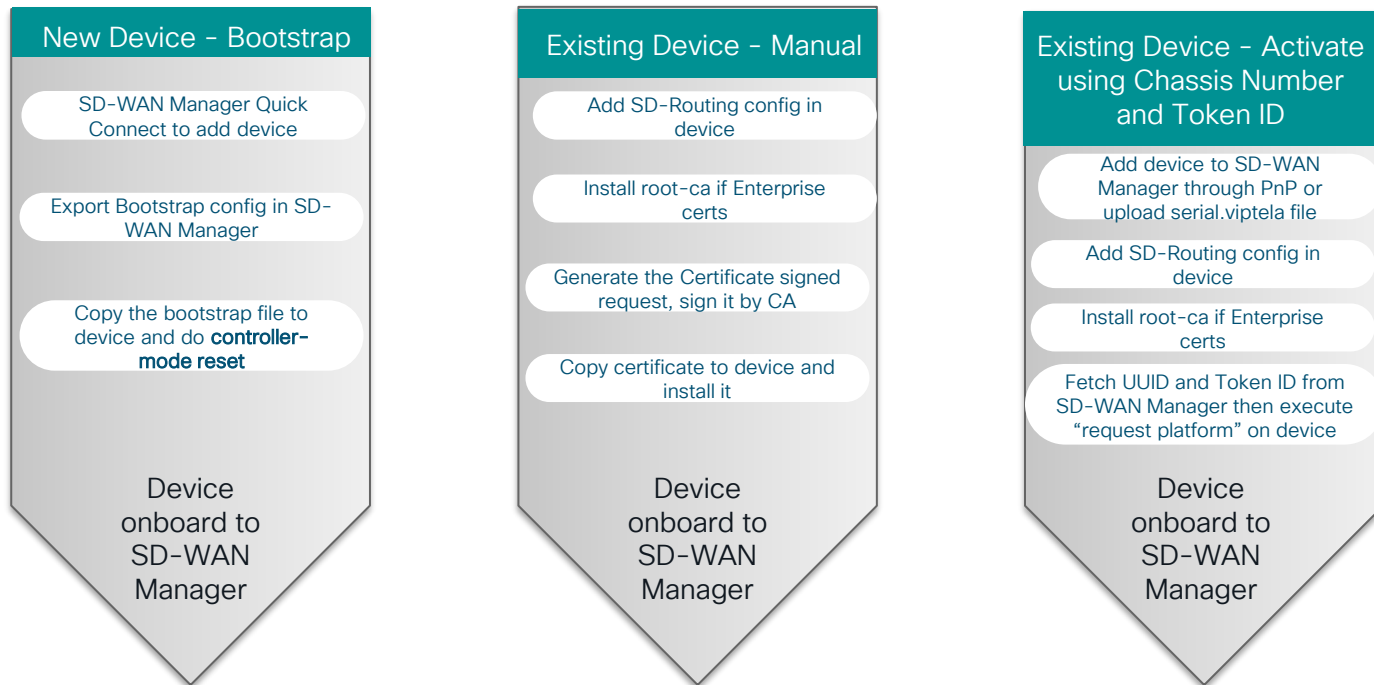
Feature: Onboarding – Existing Hardware Device

IOS XE17.12



Feature: Onboarding – Catalyst 8000V

IOS XE17.12



Feature: Lifecycle Management

IOS XE17.12

- Monitor Device
- SSH Terminal
- Ping
- Traceroute
- Real Time Data
- Admin Tech
- Notifications / Alarms/ Events
- Software Management

The screenshot displays the Cisco Catalyst SD-WAN Monitor interface. The top navigation bar includes 'Cisco Catalyst SD-WAN', 'Select Resource Group', 'All Sites', and 'Monitor - Devices'. Below this, there are tabs for 'Overview', 'Devices', 'Tunnels', 'Applications', 'Security', 'VPN', 'Logs', and 'Multicloud'. The 'Devices' tab is active, showing a list of devices under the 'Device Group All' filter. The list includes 'BR100-NY' and 'BR110-SJC-1', both with device models 'C8300-1N1S-6T (SD-Routing)' and 'C8300-1N1S-4T2X (SD-Routing)' respectively. A search bar contains 'sd-routing'. The 'Devices (7/12)' section shows a table with columns for 'Hostname' and 'Device Model'. Below the table, there is a 'Select Device' dropdown menu. The 'Destination IP' field is highlighted with a red box and contains the value '10.1.0.14'. The 'VPN' dropdown menu is set to 'VPN - 0'. The 'Source/Interface for VPN - 0' dropdown menu is set to 'Choose/Reset selections'. The 'Advanced Options' section is visible. The 'Output' section shows the traceroute results for the destination IP '10.1.0.14'. The traceroute path is: 10.0.1.2 (0.00ms) -> Null (0.00ms) -> Null (0.00ms) -> Null (0.00ms) -> Null (0.00ms) -> Null (0.00ms) -> 10.1.0.14 (1.00ms). The output also includes the command 'Traceroute -m 15 -w 1 10.1.0.14 in VPN 0' and the result 'traceroute to 10.1.0.14 (10.1.0.14), 15 hops max, 60 byte packets'. The results show 6 hops, with the final hop being '6 * 10.1.0.14 (10.1.0.14) 1.343 ms 0.840 ms'. A red arrow points to the 'Start' button in the bottom right corner.

Feature: Lifecycle Management

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

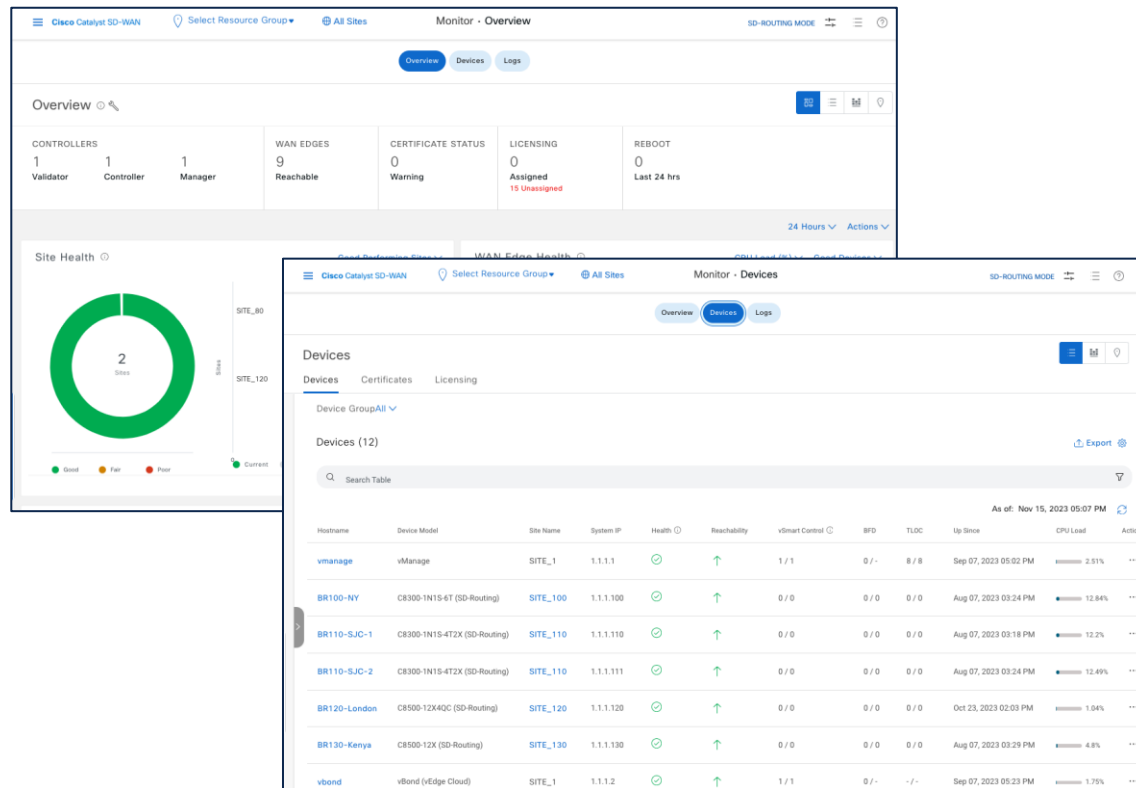
Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13



Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

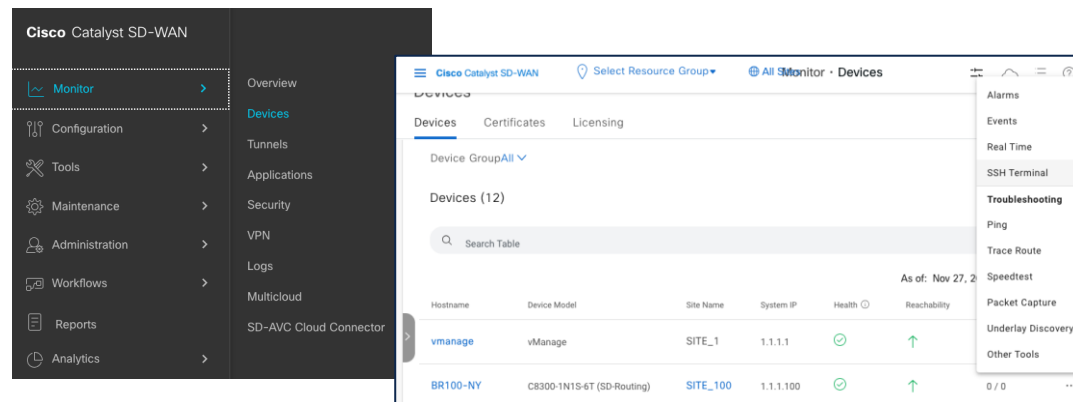
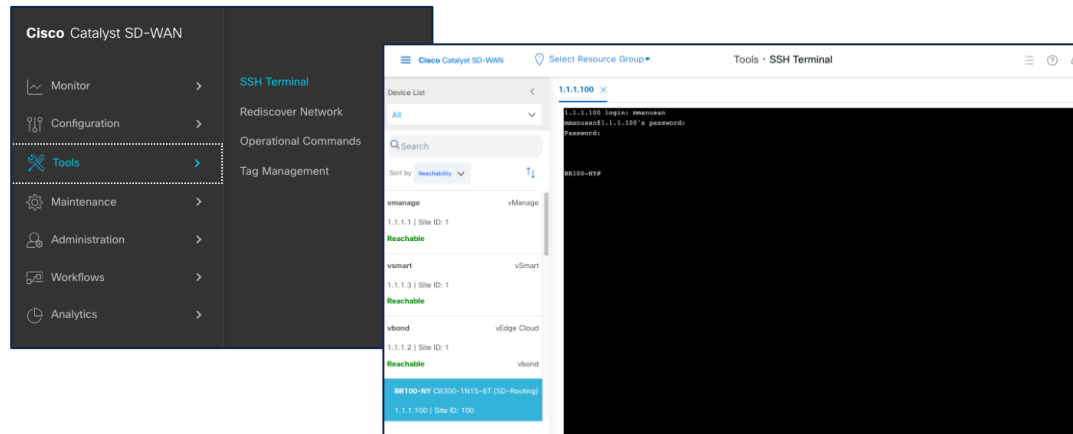
Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13



Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13

Devices

Device Group: All

Devices (9)

Hostname	Device Model	Site Name	System IP	Health	Reachability
BR100-NY	C8300-1N1S-6T (SD-Routing)	SITE_100	1.1.1.100	✓	↑
BR110-SJC-1	C8300-1N1S-6T (SD-Routing)	SITE_110	1.1.1.110	✓	↑
BR110-SJC-2	C8300-1N1S-6T (SD-Routing)	SITE_110	1.1.1.111	✓	↑
BR120-London	C8500-12T (SD-Routing)	SITE_120	1.1.1.120	✓	↑

Monitor - Devices - Device 360

Devices > Troubleshooting > Ping

Source/Interface for VPN: 0

VPN: VPN - 0

Destination IP: 172.18.120.1

Probes: ☒ ICMP ☐ TCP ☐ UDP

Src Port:

Dest Port:

Advanced Options

Ping

Summary

Packets Transmitted: 5

Packets Received: 5

Packet loss (%): 0

Round Trip Time

Min (ms): 0.449

Max (ms): 0.714

Output:

```
Running vping -s 10.0.0.102 -t icmp -c 5 -N 172.18.120.1
PROBE 172.18.120.1 in VPN 0 (table-id: 0/0)
probe=1 rtt: 0.71/0.71/0.71 msec, loss: 0%
probe=2 rtt: 0.60/0.60/0.60 msec, loss: 0%
probe=3 rtt: 0.45/0.45/0.45 msec, loss: 0%
probe=4 rtt: 0.47/0.47/0.47 msec, loss: 0%
probe=5 rtt: 0.48/0.48/0.48 msec, loss: 0%
Max rtt: 0.714ms | Min rtt: 0.449ms | Avg rtt: 0.543ms
Raw packets sent: 5 (140B) | Rcvd: 5 (140B) | Lost: 0 (0%)
Nping done: 1 IP address pinged
```

Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13

The screenshot displays the Cisco SD-WAN Monitor - Devices interface. The top navigation bar includes tabs for Overview, Troubleshooting, Tunnels, Applications, Security, VPN, Logs, and Network. The main content area is titled 'Monitor - Devices' and shows a list of devices. A dropdown menu is open, highlighting the 'Trace Route' option. Below the list, the 'Trace Route' configuration page is shown for device 'me1'. The 'Destination IP*' field is highlighted with a red box and contains the value '10.1.1.14'. The 'Source Interface for VPN' is set to 'VPN-0'. The 'Start' button is highlighted with a red arrow. The 'Output' section shows a trace route diagram with hops and latency values.

Trace Route

Destination IP* 10.1.1.14

Source Interface for VPN VPN-0

Start

Output

Trace route to 10.1.1.14 in VPN-0

Trace route to 10.1.1.14 (10.1.1.14), 15 hops max, 60 byte packets

1 > 10.1.1.14 0.00ms

2 > 10.1.1.14 0.00ms

3 > 10.1.1.14 0.00ms

4 > 10.1.1.14 0.00ms

5 > 10.1.1.14 0.00ms

6 > 10.1.1.14 0.00ms

7 > 10.1.1.14 0.00ms

8 > 10.1.1.14 0.00ms

9 > 10.1.1.14 0.00ms

10 > 10.1.1.14 0.00ms

11 > 10.1.1.14 0.00ms

12 > 10.1.1.14 0.00ms

13 > 10.1.1.14 0.00ms

14 > 10.1.1.14 0.00ms

15 > 10.1.1.14 0.00ms

Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13

The image displays two screenshots of the Cisco Catalyst SD-WAN Monitor interface for Device 360. The top screenshot shows the 'System Status' view, which includes sections for Security Monitoring (Firewall, Intrusion Prevention, URL Filtering, Advanced Malware Protection, TLS/SSL Decryption, Umbrella DNS Re-direct, Control Connections), System Status, Events, ACL Logs, Troubleshooting, and Real Time. The bottom screenshot shows the 'Real Time' view, which includes a 'Device Options' dropdown menu with options like AAA Users, AAA Servers, Control Connections, Control Connection History, Control Local Properties, Control Summary, Control Statistics, Control Valid vEdge Routers, Control Valid vManage ID, Control WAN Interface Information, Hardware Alarms, Hardware Environment, Hardware Inventory, Hardware System Data, and Interface Detail. The interface also shows a table of data with columns for Property, Device groups, Domain ID, Hostname, Last Updated, and Latitude.

Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13

The screenshot displays the Cisco Catalyst SD-WAN interface. On the left, a sidebar menu includes Monitor, Configuration, Tools (highlighted), Maintenance, Administration, Workflows, and Analytics. The main panel shows the 'Tools' section with options for SSH Terminal, Rediscover Network, Operational Commands (highlighted), and Tag Management. A 'Generate admin-tech File' dialog box is open, showing details for device BR100-NY and instructions for generating the admin-tech file. Below the dialog, a table lists devices in a specific group, and a context menu is visible over the table.

Cisco Catalyst SD-WAN

Monitor > SSH Terminal
Configuration > Rediscover Network
Tools > Operational Commands
Maintenance > Tag Management
Administration
Workflows
Analytics

Generate admin-tech File

BR100-NY | 1.1.1.100 Site ID: 100 Device Model: vedge-C8300-1N1S-6T-SD-ROUTING

Generate admin-tech file for vedge-C8300-1N1S-6T-SD-ROUTING.

This process may take several minutes. After you click Generate, you cannot interrupt the process even if you close this window.

For each device, you can generate only one admin-tech file at a time.

Note: After admin tech is generated on the device, the admin tech will be copied to vManage and deleted from the device. Admin Tech List on vManage can be accessed from "Show Admin Tech List".

Include: ☒ Logs ☐ Core ☒ Tech

Generate Close

Cisco Catalyst SD-WAN Select Resource Group Tools · Oper

Device Group

Device Group (12)

Search Table

Generate Admin Tech for vManage Show Admin Tech List

Hostname	Device Model	Site ID	Site Name	System IP	Chassis Number/ID	Action
vmanage	vManage	1	SITE_1	1.1.1.1	6cd963d3-d08e-472f-801e-2286e652a8a	...
vsmart	vSmart	1	SITE_1	1.1.1.3	93b8ee2f-7be0-459c	...
vbond	vEdge Cloud (vBond)	1	SITE_1	1.1.1.2	f5030c7a-f172-4ff0	...
BR100-NY	C8300-1N1S-6T (SD-Routing)	100	SITE_100	1.1.1.100	C8300-1N1S-6T-FD02443M0YE	...
BR110-SJC-1	C8300-1N1S-4T2X (SD-Routing)	110	SITE_110	1.1.1.110	C8300-1N1S-4T2X-FD02431M0KS	...

Generate Admin Tech
Retrieve Admin Tech from Device
Operational Actions

Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

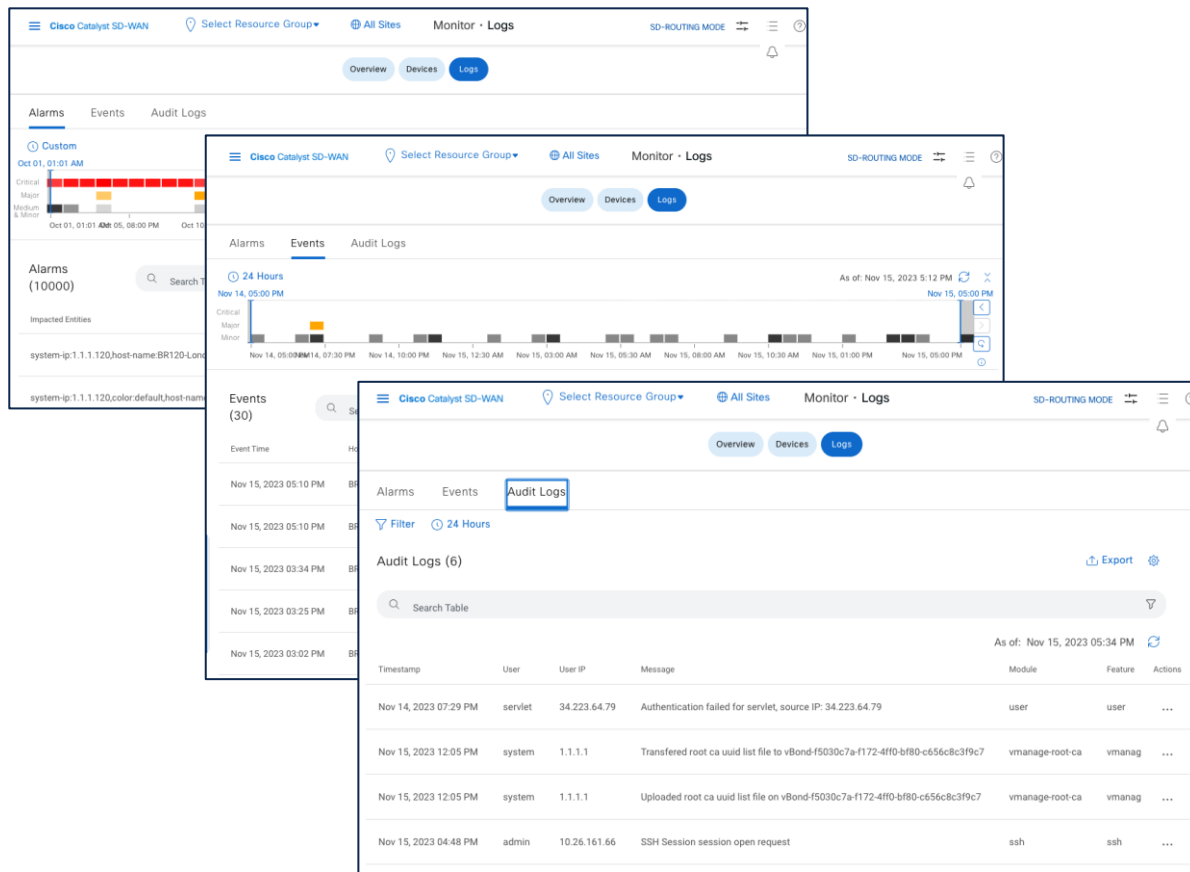
Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13



Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13



The screenshot displays the Cisco Catalyst SD-WAN interface for the Software Upgrade workflow. The left sidebar shows the navigation menu with 'Workflows' highlighted. The main content area shows the 'Software Upgrade' workflow details. The top section displays 'Congratulations, You've scheduled software upgrade' with a congratulatory message and an illustration of two people celebrating. Below this, it shows 'Upgrade devices: 1' and 'Upgrade process: Start instantly with a single attempt'. A 'Check my upgrade task' button is visible. The bottom section, titled 'What's Next?', shows the upgrade process details: 'Download and Upgrade' (selected), 'Scheduler: Now', and 'Task Name: Download and Upgrade'. The bottom right corner shows the IP Address '172.18.5.216', Image Path 'universal9.17.12.01.0.504_V17_12_0_19.SSA.bin', Protocol 'SCP', and VRF '0'. The bottom status bar shows 'BRKENT-1039' and navigation buttons 'Exit', 'Review', 'Back', and 'Next'.

Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

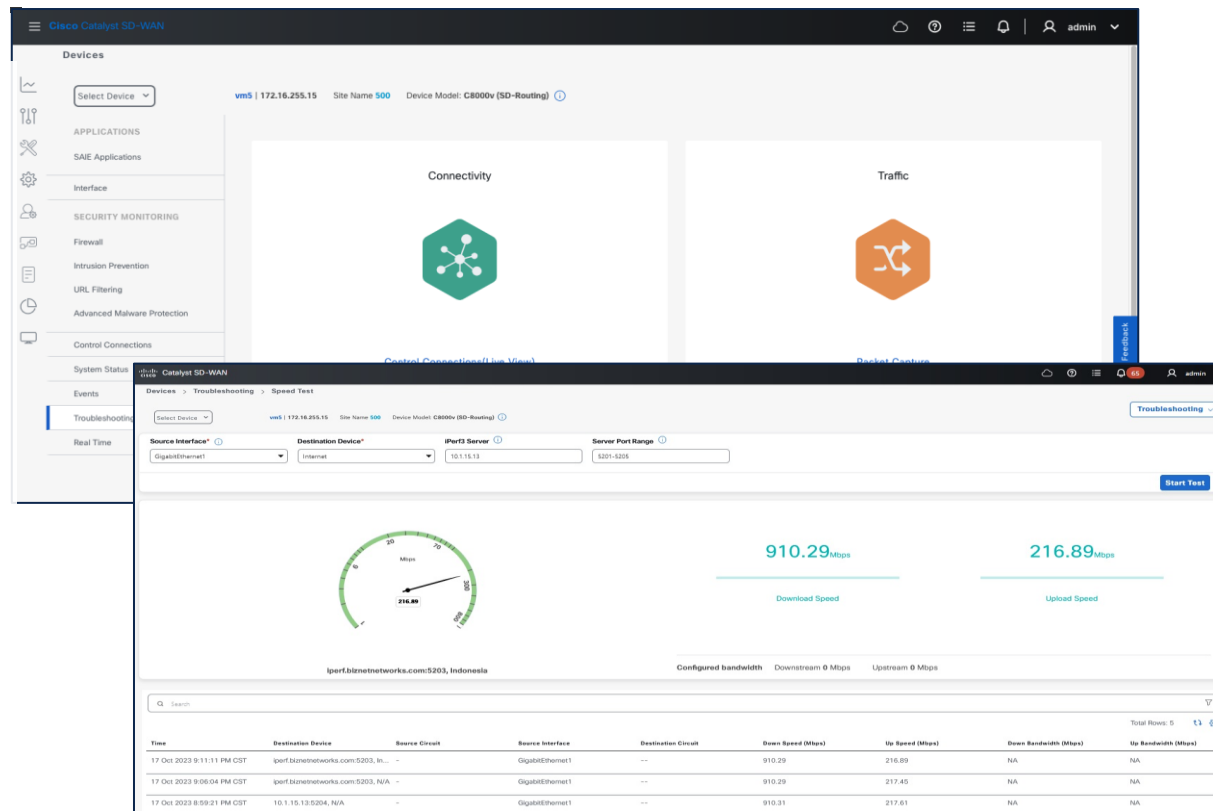
Admin Tech

Notifications/ Alarms/ Events

Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13



Feature: Lifecycle Management Contd..

Monitor Device

SSH Terminal

Ping

Trace Route

Real Time Data

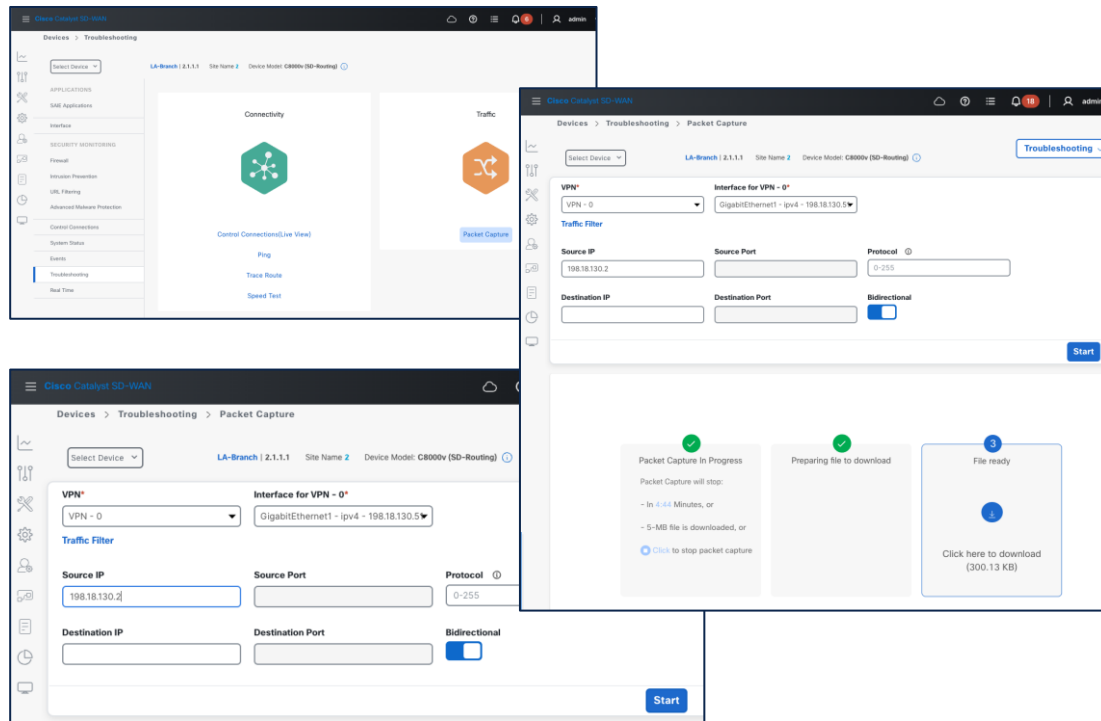
Admin Tech

Notifications/ Alarms/ Events

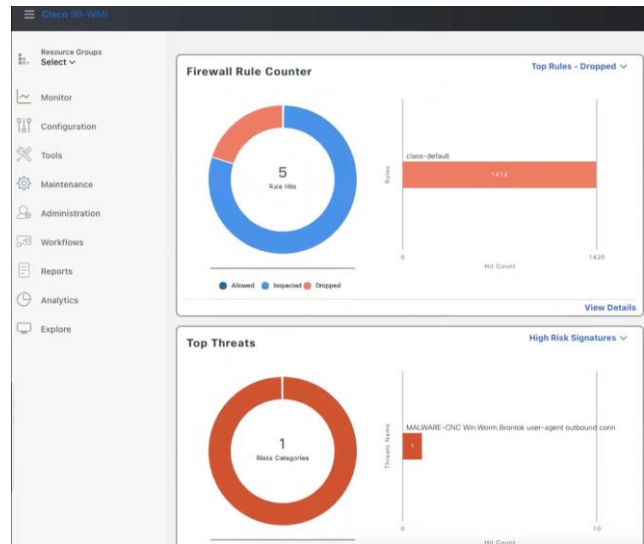
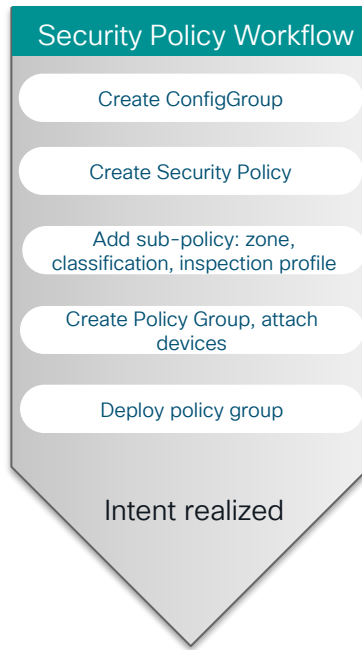
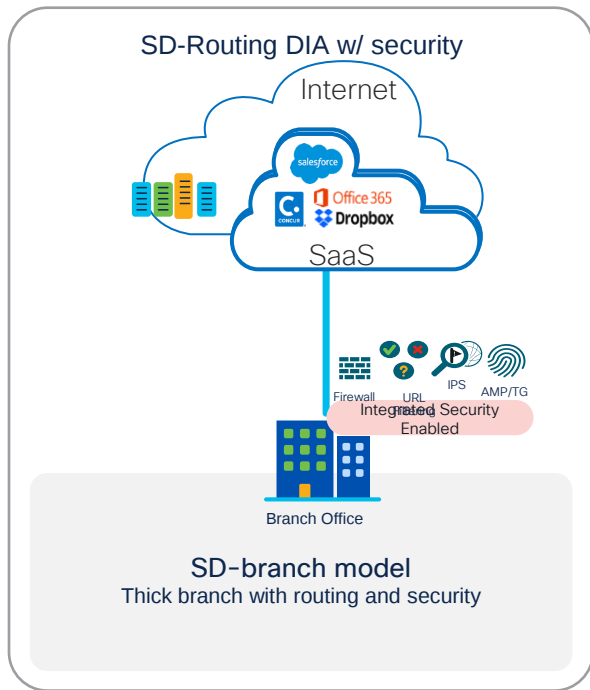
Software Management

Speed Test – 20.13/17.13

Packet Capture – 20.13/17.13

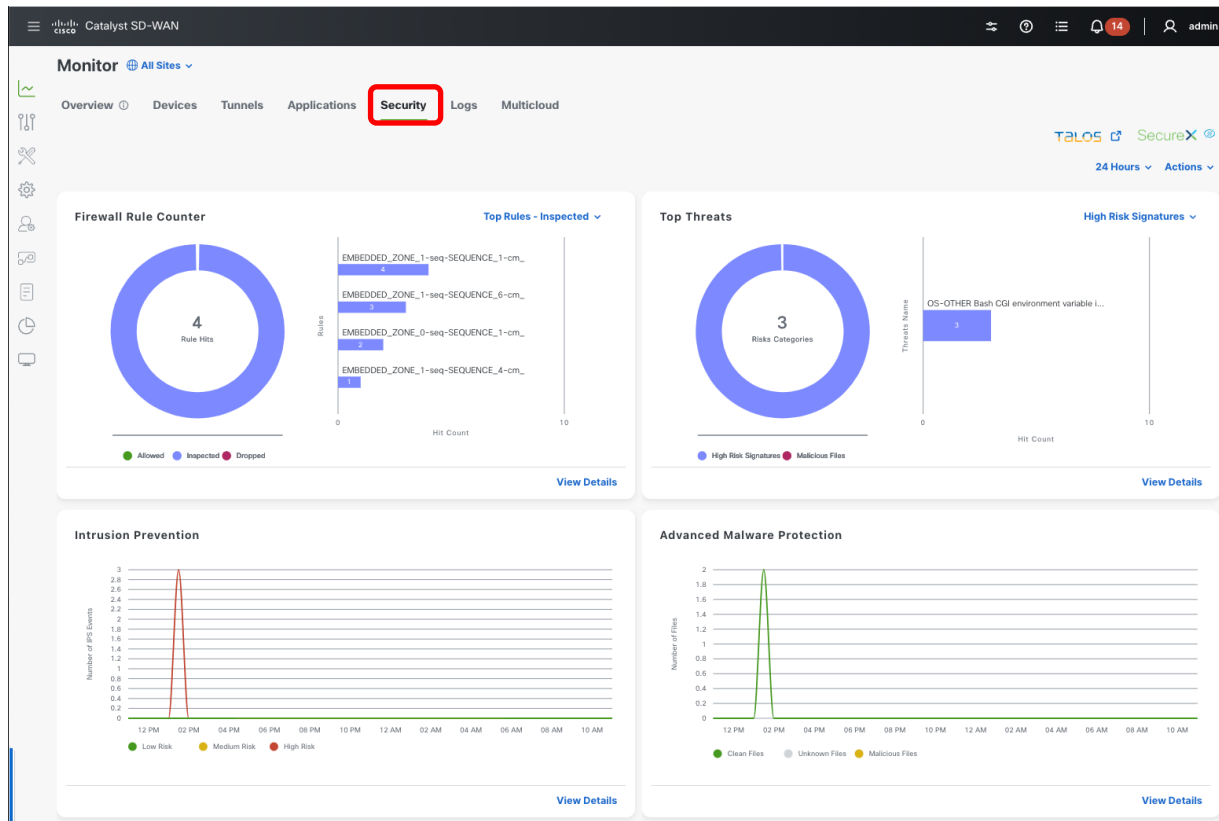


Feature: Secure Internet Access with NGFW



* UCS-E Compute with UTD services

Feature: Security Monitoring at Network level



Feature: Security Monitoring at Device level

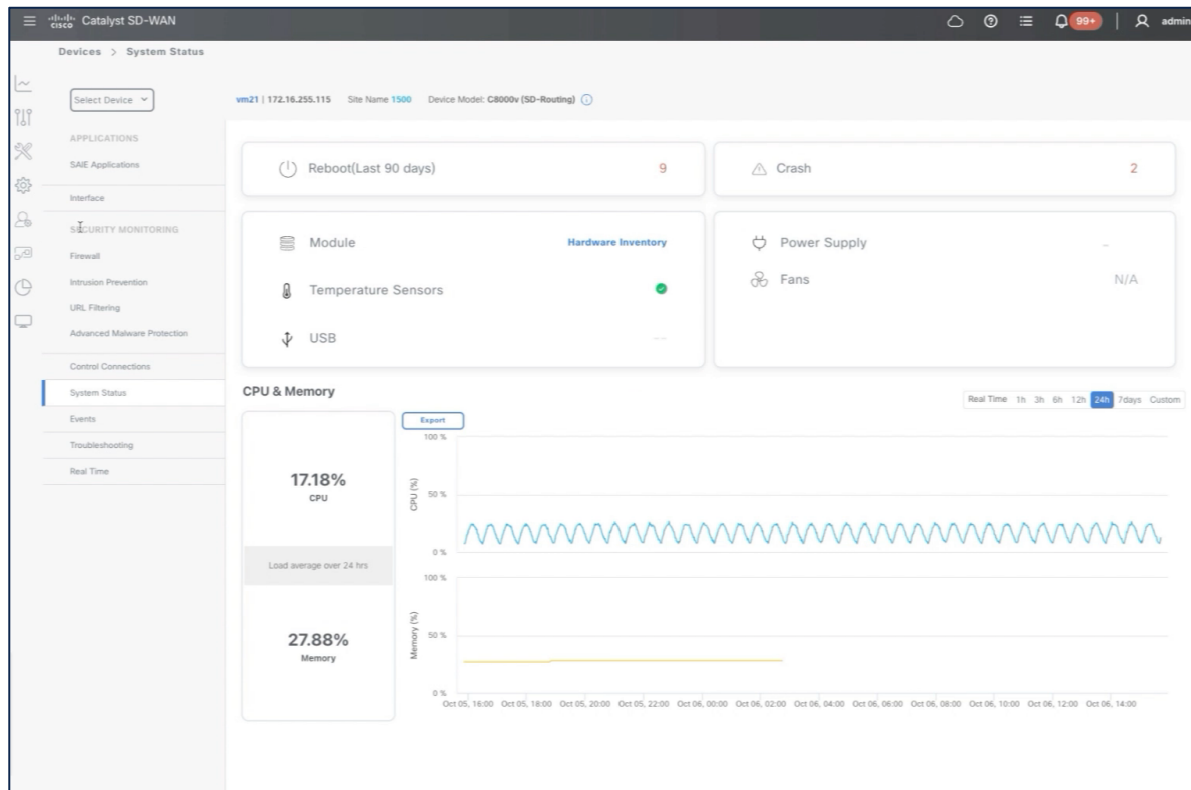
1. Device 360 View

2. Firewall

3. Intrusion Prevention

4. URL Filtering

5. AMP



Feature: Security Monitoring at Device level

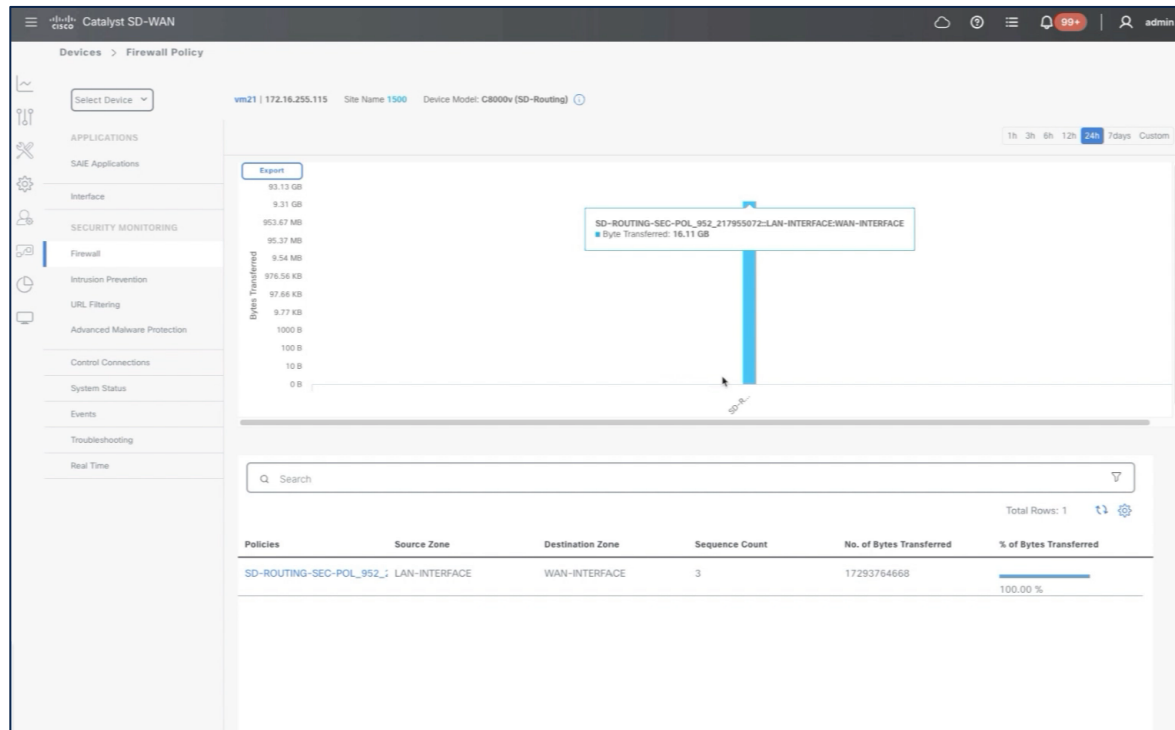
1. Device 360 View

2. Firewall

3. Intrusion Prevention

4. URL Filtering

5. AMP



Feature: Security Monitoring at Device level

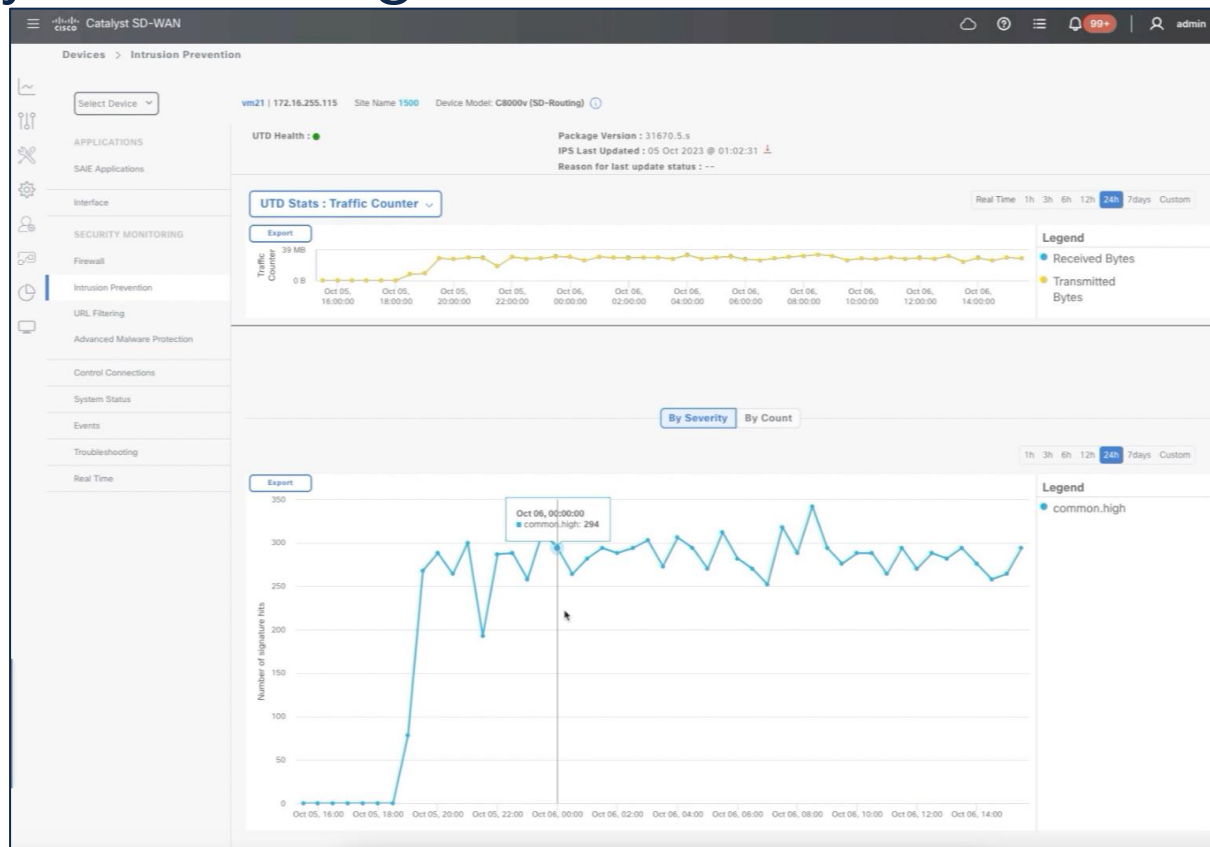
1. Device 360 View

2. Firewall

3. Intrusion Prevention

4. URL Filtering

5. AMP



Feature: Security Monitoring at Device level

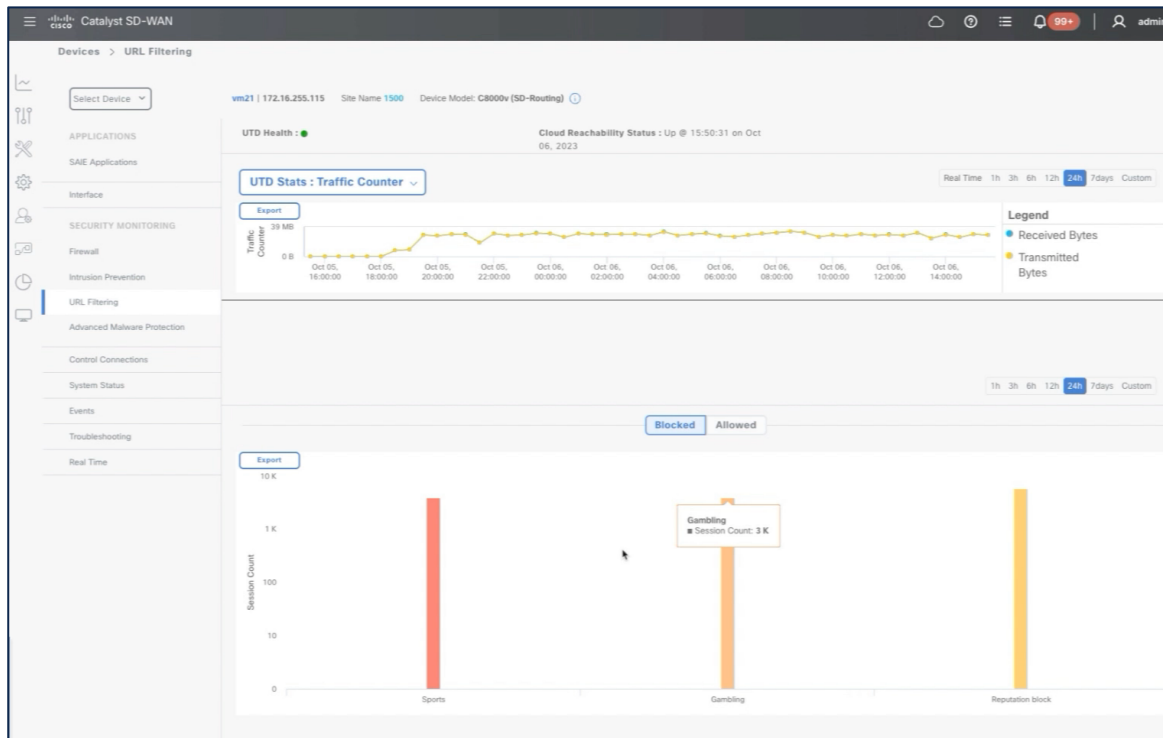
1. Device 360 View

2. Firewall

3. Intrusion Prevention

4. URL Filtering

5. AMP



Feature: Security Monitoring at Device level

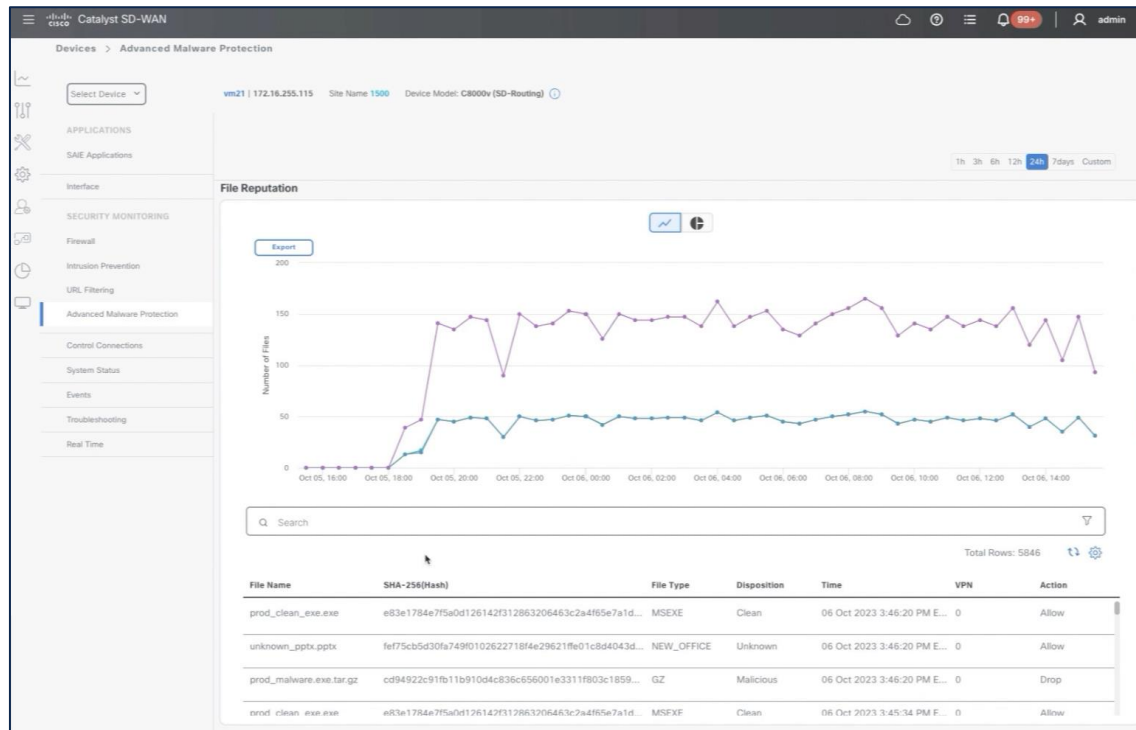
1. Device 360 View

2. Firewall

3. Intrusion Prevention

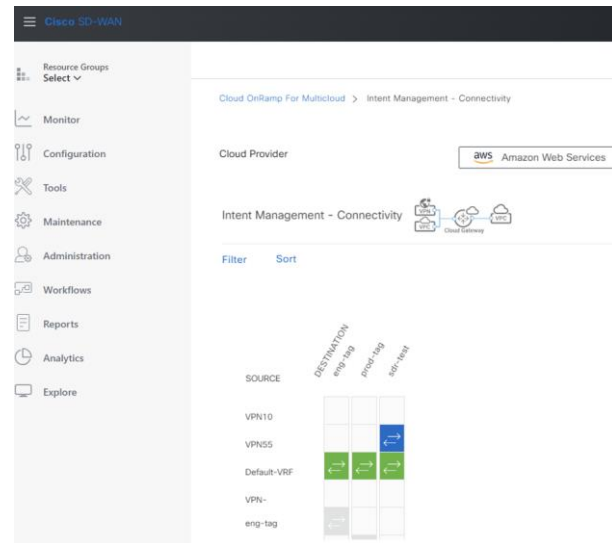
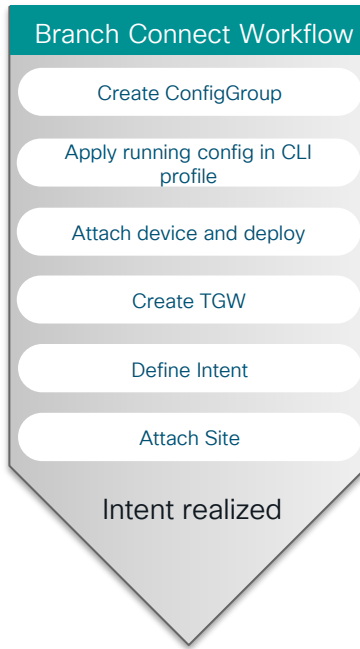
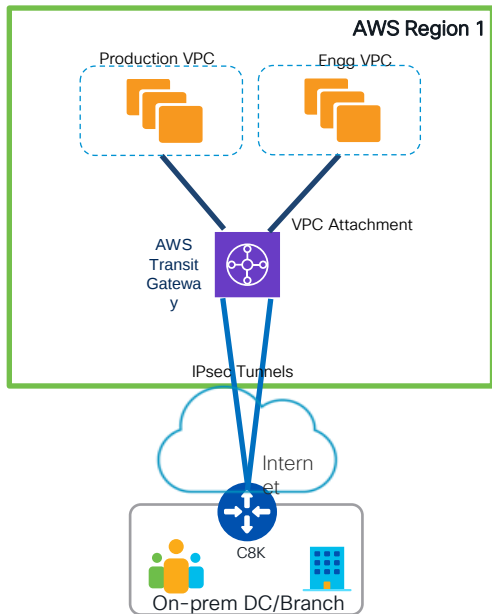
4. URL Filtering

5. AMP



Feature: Cloud onRamp for Multi-cloud

Supports Branch Connect to AWS and Azure



Feature: Application Performance Monitoring

IOS XE 17.13

Overview

- Application Performance Monitoring provide the monitoring capabilities of Application performance. User can monitor Application Performance status via Overview page or detailed Application table view or heatmap view.
- Only DIA interfaces are supported in SD-Routing
- The required configs are only supported via device CLI and CLI based Configuration Group (CG)

Required configuration

```
performance monitor context APP_PM_POLICY profile aggregated-application
  exporter destination local-controller source NULL0
  traffic-monitor art-aggregated interval 300 class-and APM_FILTER1 sampling-interval 100

Interface GigabitEthernet1
  performance monitor context APP_PM_POLICY
```

Simplified Experiences Roadmap

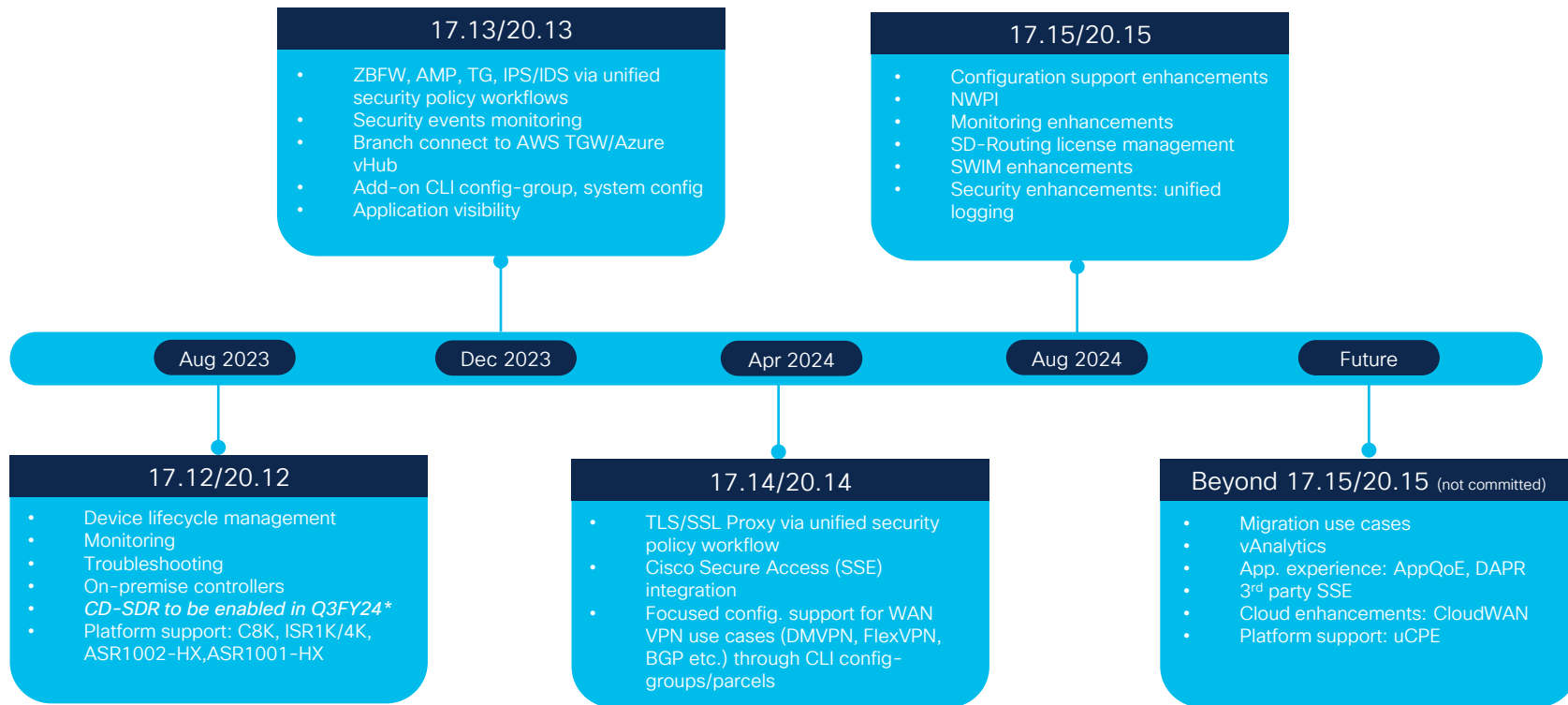
2H CY24

- Cisco Secure Access integration
- Focused config. support for WAN VPN use cases (DMVPN, FlexVPN, BGP etc.) through add-on CLI parcels (utilizing YANG modelling)
- SD-Routing license management
- SWIM enhancements
- Security enhancements: unified logging

Future

- Migration use cases
- vAnalytics
- App. experience: AppQoE, DAPR
- 3rd party SSE
- Cloud enhancements: CloudWAN
- Platform support: uCPE

SD-Routing Roadmap



Cisco roadmap disclaimer: Many of the products and features described herein remain in varying stages of development and will be offered on a when-and-if-available basis.

This roadmap is subject to change at the sole discretion of Cisco, and Cisco will have no liability for delay in the delivery or failure to deliver any of the products or features set forth in this document.

SD-Routing Supported Platforms

In 17.12

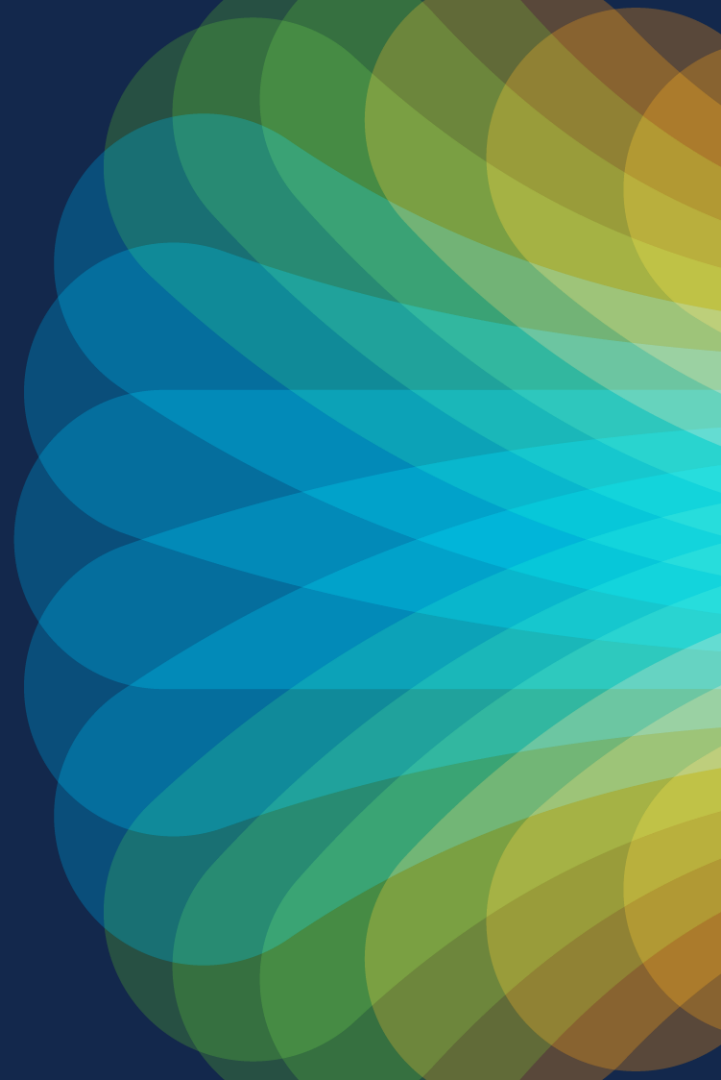
- Catalyst 8000V
- Catalyst 8500 / 8500L
- Catalyst 8300
- Catalyst 8200 / 8200L
- ASR1001-HX, ASR1002-HX
- ISR4000
- ISR1000 (Except ISR1100(X)-4G/6G/LTE)

In 17.13

- Catalyst 8000V
- Catalyst 8500 / 8500L
- Catalyst 8300
- Catalyst 8200 / 8200L
- ASR1001-HX*, ASR1002-HX*
- ISR4461*
- ISR1000 (Except ISR1100(X)-4G/6G/LTE)

* Monitoring only

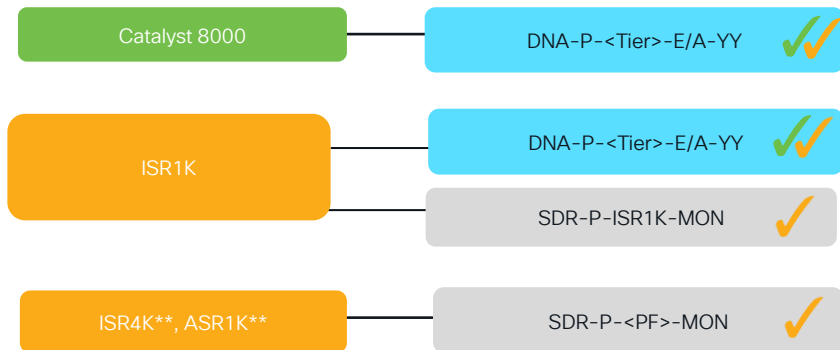
Licensing



SD-Routing Licensing

Q2-CY2024

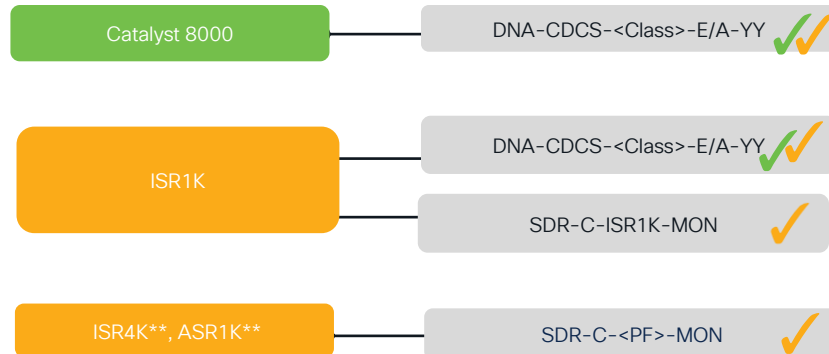
On-premises controllers



✓ Configuration

✓ Monitoring

Cloud-delivered controllers



Coming soon

Available

* Monitoring license provides ZTP, monitoring, SWIM, troubleshooting. For configuration support on ISR1K, DNA or DNA-CDCS is required
** ISR4K and ASR1K would not support configuration.

SD-Routing Licensing FAQs

What are the license requirements for adding SD-Routing device to my existing SD-WAN deployment?

DNA or L-SDR-MONITOR is required for adding SD-Routing devices into existing non-CDCS SD-WAN controllers.

Which platforms are supported with L-SDR-Monitor license ?

ISR1K, ISR4K, ASR1K (ASR1002-HX, ASR1001-HX only).

Can I order controllers through L-CONTROLLER-ADD for SD-Routing?

Cloud controllers for SD-Routing will be available only through CD-SD-Routing MLB. So, L-CONTROLLER-ADD can not be used for ordering controllers for SD-Routing.

SD-Routing Licensing FAQs

I have Catalyst 8300 in autonomous mode with active DNA subscription. Am I entitled for SD-Routing with on-prem controllers ?

Yes. Active DNA subscription provides entitlement for SD-Routing (for remaining term) with on-prem controllers.

I have Catalyst 8300 in autonomous mode with active DNA subscription. What's the license required to use cloud-delivered controllers ?

For customers having existing active DNA license for autonomous mode, to use CD-SD-Routing, DNA needs to be cancelled and DNA-CDSDR need to be booked through L-DNA-CDSDR.

Is SD-Routing capability available perpetually?

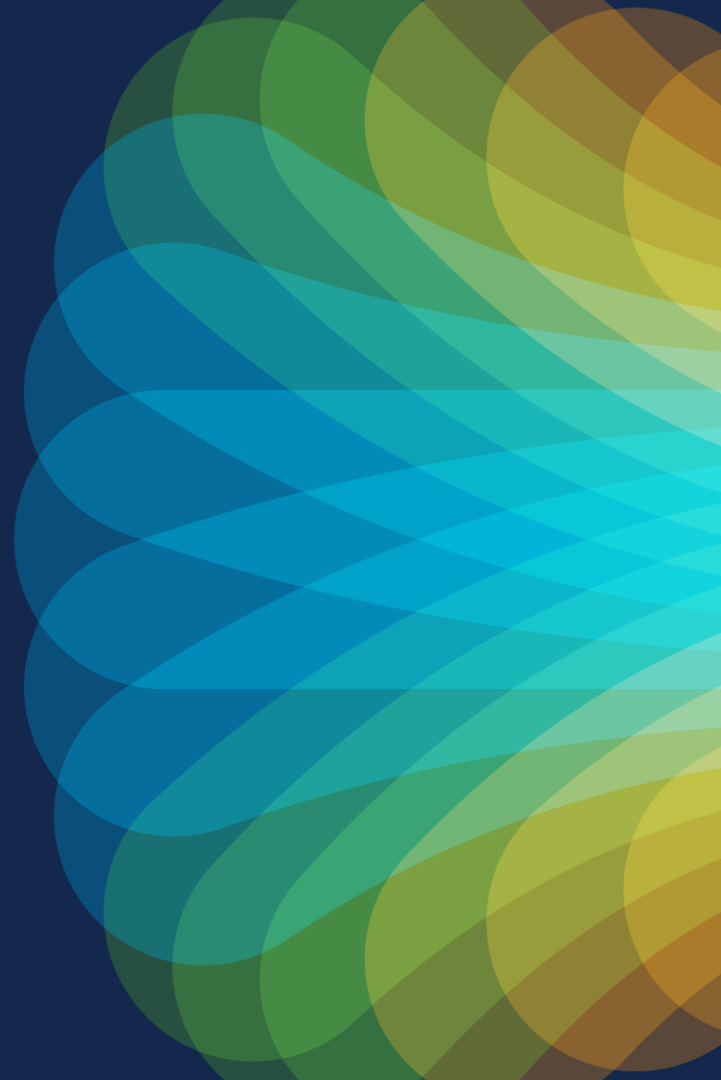
SD-Routing will be available through term-based subscription.



Demo

CISCO *Live!*

Takeaway



Key Business Outcomes delivered by Cisco Catalyst SD-Routing

Simplicity and agility

- Intuitive automated device lifecycle orchestration
- Rich network monitoring and assurance

OpEx reduction

- Single management platform for Catalyst SD-WAN and routing

Future-ready WAN

- Simplify migration to SD-WAN
- Branch to multi-cloud integration

Multi-layered Security

- Powerful security capabilities on the router
- Seamless integration with cloud security

SD-Routing

Will enable following capabilities for routing devices:

- Device lifecycle management
- Monitoring and assurance
- Software-defined security policy
- Software-defined multi-cloud integration



Single management platform for all WAN use cases

- *Same workflows, tools, UI for SD-WAN and Routing*



Reduce operational expenditure

- *Secure device on-boarding, troubleshooting, SWIM*



Support routing customer journey to multi-cloud

- *Continued innovation towards cloud integration*



Support multi-layered security

- *Configuration and management for on-prem security, Cisco Secure Access and third-party SSE*



Easier migration to SD-WAN

- *Migration capabilities from Routing to Catalyst SD-WAN*



Service assurance

- *Monitoring, Application Performance Monitoring, Network wide path insights, Catalyst Analytics, ThousandEyes*



Ease of migration across generations

- *Migration capabilities from legacy platforms to Cat8K*

Power Your WAN with Cisco SD-Routing

- Scan the QR code to learn more about how Cisco SD-Routing can modernize routing for your network
- Visit the Catalyst SD-Routing/SD-WAN demo booths in World of Solutions

CISCO *Live!*





The bridge to possible

Thank you

CISCO *Live!*

The background is a vibrant, abstract graphic featuring a rainbow color palette. On the left, there are soft, overlapping wavy bands of color. On the right, a bright white light source emits a series of sharp, radiating lines that fan out across the frame, transitioning through the rainbow spectrum.

CISCO *Live!*

Let's go

CISCO *Live!*