

Release Notes for Cisco IOS XE SD-WAN Devices, Cisco IOS XE Release Amsterdam 17.3.x

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Note The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on standards documentation, or language that is used by a referenced third-party product.

These release notes accompany the Cisco IOS XE Release Amsterdam 17.3.x, which provides Cisco SD-WAN capabilities. They include release-specific information for Cisco vSmart Controllers, Cisco vBond Orchestrators, Cisco vManage, as applicable to Cisco IOS XE SD-WAN devices.

For release information about Cisco vEdge Devices, refer to [Release Notes for Cisco vEdge Devices, Cisco SD-WAN Release 20.3.x](#).

What's New for Cisco IOS XE Release Amsterdam 17.3.x

This section applies to Cisco IOS XE SD-WAN devices.

Cisco is constantly enhancing the SD-WAN solution with every release and we try and keep the content in line with the latest enhancements. The following table lists new and modified features we documented in the Configuration, Command Reference, and Hardware Installation guides. For information on additional features and fixes that were committed to the SD-WAN solution, see the *Resolved and Open Bugs* section in the Release Notes.

Table 1: Cisco IOS XE Release 17.3.2

| Feature | Description |
|------------------------|-------------|
| Systems and Interfaces | |

| Feature | Description |
|---|--|
| Support for Dialer Interface in DSL | <p>This feature enables tracking of a Point-to-Point Protocol (PPP) session over a dialer interface on Cisco IOS XE SD-WAN devices.</p> <p>Dialer interface is used in Digital Subscriber Line (DSL) in the deployments of Point-to-Point Protocol over Ethernet (PPPoE), Point-to-Point Protocol over Asynchronous Transfer Mode (PPPoA). Dialer interface always stay up irrespective of the PPP session status. This helps to avoid the need for additional configuration such as IP SLA and tracking for routing failover to work while using dialer interfaces.</p> <p>The command dialer down-with-vInterface is added to bring down the dialer interface when the PPP session goes down.</p> |
| Routing | |
| OSPFv3 Support on Cisco IOS XE SD-WAN Devices | Open Shortest Path First version 3 (OSPFv3) is an IPv4 and IPv6 link-state routing protocol that supports IPv6 and IPv4 unicast address families. |
| Multicast over L3 TLOC Extension | This feature enables support for transport location (TLOC) which allows addition of the peers transport to avoid the extra cost of additional IP and allows the use of dynamic load balance across multiple transports. |
| Cloud OnRamp | |
| Transit Gateway Peering | This feature enables the ability to establish peer connections between transit gateways in different AWS regions. With this feature, you can connect to various Transit Virtual Private Clouds (TVPCs) and on-premise networks using a single gateway. The ability to peer transit gateways between different AWS regions enables you to extend the connectivity and build global networks spanning multiple other regions. To support inter-region connectivity, mapping and audit functions are enhanced. |
| Policies | |
| NAT Fallback on Cisco IOS XE SD-WAN Devices | Cisco IOS XE SD-WAN devices support the NAT fallback feature for Direct Internet Access (DIA). The NAT fallback feature provides a routing-based mechanism for all traffic that is sent to the DIA route to use an alternative route when required. With this release, fallback is supported on the service and tunnel side. |

Table 2: Cisco IOS XE Release 17.3.1a

| Feature | Description |
|---|--|
| User Documentation and Interactive Help in Cisco vManage | |
| User Documentation | Starting from this release, we've restructured the listing page of our configuration guides to display category-wise book and chapter contents. This new page lets you switch between releases using the View Documents by Release drop-down list. |
| Interactive Help in Cisco vManage | This feature helps you navigate Cisco vManage and complete vManage procedures using guided workflows. The Interactive Help points to elements within the Cisco vManage interface and shows you where to click next and what to do to complete a selected workflow. |

| Feature | Description |
|---|---|
| Cisco SD-WAN Getting Started | |
| Generate a Bootstrap File For Cisco IOS XE SD-WAN Devices Using the CLI | This feature enables you to generate a minimum bootstrap configuration file directly on a device, that enables a device to reconnect to the controller in case the full configuration is ever lost or removed. |
| Cisco SD-AVC Cloud Connector | When enabling Cloud onRamp for SaaS to manage Office 365 traffic, you can limit best path selection to apply only to some Office 365 traffic, according to the Office 365 traffic categories defined by Microsoft, or to include all Office 365 traffic. The Cisco SD-AVC Cloud Connector provides support for this functionality. |
| On Premises ZTP Server for Cisco SD-WAN | This feature extends the on-premise Plug and Play implementation support to Cisco IOS XE SD-WAN routers. |
| Device Onboarding Enhancement | Starting from Cisco vManage Release 20.3.1 you can onboard a device to Cisco vManage by directly uploading a .csv file containing details of your device, from your system. |
| Cisco vManage Cluster Upgrade | This feature outlines the upgrade procedure for Cisco vManage servers in a cluster to Cisco vManage Release 20.3.1. |
| Systems and Interfaces | |
| Configure a Router as an NTP Primary | This feature lets you configure a supported router as an NTP primary router. Other nodes in a Cisco SD-WAN deployment synchronize their clocks to the NTP primary router. This configuration is useful if you do not have an NTP server in your deployment. |
| Export vManage Audit Log as Syslog | The Cisco vManage NMS exports audit logs in syslog message format to a configured external syslog server. This feature allows you to consolidate and store network activity logs in a central location. |
| Hardened Passwords | This feature enables password policy rules in Cisco vManage. Once enabled, Cisco vManage enforces the use of strong passwords. |
| Configure Sessions in Cisco vManage | This feature lets you see all HTTP sessions open within Cisco vManage. It gives you details about the username, source IP address, domain of the user, and other information. A user with User Management Write access, or a netadmin user can trigger a log out of any suspicious user's session. You can set client session timeouts, session lifetimes, server session timeouts, and enable the maximum number of user sessions in Cisco vManage. |

| Feature | Description |
|---|--|
| Posture Assessment Support | <p>Identity Services Engine (ISE) Posture functions are intergrated into Cisco 1100 Integrated Services Routers. This feature enables you to utilize Posture Assessment capabilities to validate the compliance of endpoints according to security policies of your enterprise.</p> <p>For Cisco vManage Release 20.3.1 this feature can only be configured using CLI Add-On feature templates in Cisco vManage.</p> |
| Remove Certificate SUDI requirement. | <p>This feature allows you to use a subject SUDI serial number instead of a certificate serial number to add a device to a Cisco SD-WAN overlay network.</p> |
| Integration with Cisco Unified Communications | <p>This release adds support for using a feature template to enable Cisco IP-based media services.</p> |
| Dynamic On-Demand Tunnels | <p>This feature enables you to configure an Inactive state for tunnels between edge devices, reducing performance demands on devices and reducing network traffic.</p> |
| Static Route Tracker for Service VPNs | <p>This feature enables you to configure IPv4 static route endpoint tracking for service VPNs.</p> <p>For static routes, endpoint tracking determines whether the configured endpoint is reachable before adding that route to the route table of the device.</p> <p>To configure Static Route Tracking on Cisco vManage, configure an endpoint tracker using Cisco System template, and Configure a static route using the Cisco VPN template.</p> |
| NAT DIA Tracker for Cisco IOS XE SD-WAN Devices | <p>This feature allows you to configure a system tracker to probe the transport interface periodically to determine if the Internet or external network becomes unavailable.</p> <p>You can configure DIA Tracker using the Tracker tab of the Cisco System template.</p> <p>You can apply the tracker to a transport interface using either Cisco VPN Interface Ethernet or Cisco VPN Interface Cellular templates.</p> |
| Service Side NAT on Cisco IOS XE SD-WAN devices | <p>This feature allows you to configure inside and outside NAT on data traffic traveling to and from the service-side hosts of the network overlay.</p> <p>The service-side NAT configuration allows you to translate the source IP addresses for data traffic from service- side hosts to the overlay and traffic from the overlay to service-side hosts.</p> <p>To configure service-side NAT using Cisco vManage, configure a centralized data policy using the Configure > Policies, and configure a dynamic NAT Pool and Static NAT address using the Service VPN template.</p> |
| Qualified Commands for Cisco IOS XE Release Amsterdam 17.3.1a | <p>Starting Cisco IOS XE Release 17.3.1a, you can use additional commands in CLI Add-on feature templates.</p> |
| <p>Routing</p> | |

| Feature | Description |
|--|---|
| BGP Community Propagation | This feature enables propagation of BGP communities between routing protocols during route redistribution. On one node, the OMP redistributes routes from BGP and on the other node, the OMP redistributes node into BGP. The BGP AS Path is propagated over OMP so that it can be preserved between Cisco SD-WAN nodes. The BGP community propagation helps in propagating BGP communities between Cisco SD-WAN sites, across VPNs using OMP redistribution. |
| OMP Route Aggregation | This feature is an enhancement where OMP route aggregation is performed only for the routes that are configured for route redistribution to avoid black hole routing. This enhancement is applicable for OSPF, Connected, Static, BGP and other protocols only if the redistribution is requested. |
| Route Leaking Between Global VRF and Service VPNs | This feature enables you to leak routes bidirectionally between the global VRF and service VPNs. Route leaking allows service sharing and is beneficial in migration use cases because it allows bypassing hubs and provides migrated branches direct access to non-migrated branches. |
| BFD for Routing Protocols in Cisco SD-WAN | This feature extends BFD support to BGP, OSPF, and EIGRP protocols in the Cisco SD-WAN solution. BFD provides a consistent failure detection method to detect forwarding path failures at a uniform rate, therefore enabling faster reconvergence time. |
| Forwarding and QoS | |
| Adaptive QoS | This feature enables WAN interface shapers and per-tunnel shapers at the enterprise edge to adapt to the available WAN bandwidth. The capability to adapt to the bandwidth controls differentiated packet drops at the enterprise edge and reduces or prevents packet drops in the network core. |
| Policies | |
| Application-Aware Routing Policy Support for Multicast | This feature enables support for configuring application-aware routing policy for multicast traffic on Cisco IOS XE SD-WAN devices based on source and destination, protocol matching and SLA requirement. |
| Support for six SLA Classes per Policy | This feature allows you to configure up to six SLA classes per policy on Cisco IOS XE SD-WAN devices. This allows additional options to be configured in an application-aware routing policy. |
| Support for Defining Custom Applications | This feature adds support for defining custom applications. |
| Service insertion tracker support | This feature extends support for service chaining to Cisco IOS XE SD-WAN devices. On Cisco IOS XE SD-WAN devices and Cisco vEdge devices, it adds a tracking feature that logs the availability of a service. |
| Security | |

| Feature | Description |
|---|---|
| Support for SGT Propagation with Cisco TrustSec Integration | This feature enables Cisco IOS XE SD-WAN edge devices to propagate Security Group Tag (SGT) inline tags that are generated by Cisco TrustSec-enabled switches in the branches to other edge devices in the Cisco SD-WAN network. While Cisco TrustSec-enabled switches does classification, propagation (inline SGT tagging) and enforcement on the branches, Cisco IOS XE SD-WAN devices carry the inline tags across the edge devices. |
| Cloud OnRamp | |
| Support for Specifying Office 365 Traffic Categories for Cloud onRamp for SaaS on Cisco IOS XE SD-WAN Devices | This feature updates the existing Cloud onRamp for SaaS configuration workflow for Cisco IOS XE SD-WAN devices. The feature allows you to limit the use of best path selection to some or all Office 365 traffic, according to the Office 365 traffic categories defined by Microsoft. |
| Integration of AWS Branch with Cisco IOS XE SD-WAN Devices | Cisco SD-WAN Cloud OnRamp for Infrastructure as a Service (IaaS) extends enterprise WAN to public clouds. This multi-cloud solution helps to integrate public cloud infrastructure into Cisco SD-WAN fabric. This feature enables Transit Gateway (TGW) when the standard Cloud OnRamp solution is not sufficient. For example, one host VPC is connected to the Cisco SD-WAN edge router using an Internet Gateway (IGW). If the IGW bandwidth limit is less, then TGW is used for SD-WAN integration. TGW provides a way to interconnect VPCs and VPNs. |
| Support Catalyst 48Y4C (Cloud OnRamp for Colocation) | This release supports the use of Cisco Catalyst 9500-48Y4C switches in the Cloud onRamp for colocation cluster that enables 80G-200G of bidirectional throughput. |
| Flexible Topologies (Cloud OnRamp for Colocation) | This feature provides the ability to flexibly insert the NIC cards and interconnect the devices (CSP devices and Catalyst 9500 switches) within the Cloud onRamp for colocation cluster. Any CSP ports can be connected to any port on the switches. The Stackwise Virtual Switch Link (SVL) ports can be connected to any port and similarly the uplink ports can be connected to any port on the switches. |
| TACACS Authentication (Cloud OnRamp for Colocation) | This feature allows you to configure the TACACS authentication for users accessing the Cisco CSP and Cisco Catalyst 9500 devices. Authenticating the users using TACACS validates and secures their access to the Cisco CSP and Cisco Catalyst 9500 devices. |
| Network Assurance –VNFs: Stop/Start/Restart (Cloud OnRamp for Colocation) | This feature provides the capability to stop, start, or restart VNFs on Cisco CSP devices from the Colocation Clusters tab. You can easily perform the operations on VNFs using Cisco vManage. |
| TCP Optimization | |
| TCP Optimization | TCP optimization support extended to Cisco ISR4221, Cisco ISRv, and Cisco 1000 Series Integrated Services Routers. See Supported Platforms for more information. |

| Feature | Description |
|---|---|
| Monitor and Maintain | |
| Embedded Packet Capture | This feature is an onboard packet capture facility that allows network administrators to capture packets flowing to, through, and from the device and to analyze them locally or save and export them for offline analysis through Cisco vManage. This feature facilitates application analysis, security, and troubleshooting by gathering information about the packet format. |
| TAC Access | |
| TAC Access to Cisco vManage | When working with the Cisco Technical Assistance Center (TAC) to address an issue in Cisco vManage, users may provide TAC with access to Cisco vManage or TAC teams may access Cisco vManage using the consent token mechanism. In the past, this access has relied on a user account called viptelatac. In this release, two separate user accounts have been added, one with read-only access and one with write access. The accounts use a challenge-response authentication method. |
| Cisco SD-WAN for Government | |
| Cisco SD-WAN for Government | FedRAMP, the Federal Risk and Authorization Management Program, is a United States-government program that provides a specific set of standards to ensure that a cloud provider meets the requirements to be eligible for use by the U.S. federal government. With Cisco SD-WAN for Government, you can quickly and easily deploy a Cisco SD-WAN overlay network using the Cisco Self-Service Portal. This ensures that your Cisco SD-WAN network meets the stringent requirements of FedRAMP with enhanced security and rapid deployments. |

New and Enhanced Hardware Features

New Features

Hardware support added in Cisco IOS XE Release 17.3.2:

- Cisco Catalyst 8300 Series Edge Platforms
- Modules on Cisco Catalyst 8300 Series Edge Platforms:
 - 10G Modules
 - SM to NIM Slot Adapter
- Cisco Catalyst 8500 Series Edge Platforms
- Cisco Cellular Gateway CG418-E

Important Notes, Known Behavior, and Workaround

- Cisco IOS XE SD-WAN devices with the SFP-10G-SR module do not support online insertion and removal (OIR) of this module.
- When you complete a Cisco SD-WAN software downgrade procedure on a device, the device goes into the configuration mode that it was in when you last upgraded the Cisco SD-WAN software on the device.

If the device is in a different configuration mode when you start the downgrade than it was when you last upgraded, the device and Cisco vManage show different configuration modes after the downgrade completes. To put the configuration modes back in sync, reattach the device to a device template. After you reattach the device, both the device and Cisco vManage show that the device is in the vManage configuration mode.

- Cisco vManage Release 20.3.1 implements a hardened security posture to comply with FedRamp guidelines. As a result, your vAnalytics login credentials that are stored locally get erased on upgrading the software, and you cannot access the vAnalytics service directly through Cisco vManage. In this case, log in to vAnalytics using this URL: <https://analytics.viptela.com>. If you can't find your vAnalytics login credentials, open a case with Cisco TAC support.

Cisco vManage Upgrade Paths

For information about Cisco vManage upgrade procedure, see [Upgrade Cisco vManage Cluster](#).

| Starting Cisco vManage Version | Destination Version | | |
|--------------------------------|---------------------|----------------|--|
| | 19.2.x | 20.1.x | 20.3.x |
| 18.x/19.2.x | Direct Upgrade | Direct Upgrade | Check disk space* <ul style="list-style-type: none"> • If the disk space is more than 2GB: Direct Upgrade • If the disk space is less than 2GB: Step upgrade through 20.1 For cluster upgrade procedure**: request nms configuration-db upgrade |
| 20.1.x | Not Supported | Direct Upgrade | Direct Upgrade For cluster upgrade procedure**: request nms configuration-db upgrade |
| 20.3.x | Not Supported | Not Supported | Direct Upgrade |
| 20.4.x | Not Supported | Not Supported | Not Supported |

*To check the free disk space using CLI,

1. Use the vshell command to switch to vshell.
2. In vshell, use the `df -kh | grep boot` command.

**Cluster upgrade must be performed using CLI

- Use the following command to upgrade the configuration database. This must be done on only one node that runs configuration-db in the cluster:

```
request nms configuration-db upgrade
```

- Enter login credentials, if prompted. Login credentials are prompted if all Cisco vManage server establish control connection with each other. After a successful upgrade, all configuration-db services are UP across the cluster and the application-server is started.



Note The autoscale issue is fixed in Cisco SD-WAN Release 20.3.x. If your device is running on Cisco SD-WAN Release 18.4.x and mapped to a transit VPC, you must skip the upgrade to Cisco SD-WAN Release 19.2.x and Cisco SD-WAN Release 20.1.x, and upgrade directly to Cisco SD-WAN Release 20.3.x.

Resolved and Open Bugs

About the Cisco Bug Search Tool

Use the [Cisco Bug Search Tool](#) to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.

You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.

Bugs for Cisco IOS XE Release 17.3.4a

This section details all fixed and open bugs for this release. These bugs are available in the [Cisco Bug Search Tool](#)

Resolved Bugs for Cisco IOS XE Release 17.3.4a

| Bug ID | Description |
|----------------------------|---|
| CSCvu93871 | SDWAN 17.3/20.3- Cisco IOS XE SD-WAN device1002HX- FTMD crash during traffic test run |
| CSCvv53387 | Cisco IOS XE SD-WAN device is sending incorrect if index values for the sub-interfaces. |

| Bug ID | Description |
|----------------------------|---|
| CSCvv92064 | App-aware policy need to be honored when queuing is not set by localized policy |
| CSCvv95280 | ASR1001-X may crash when ZBFW HSL(High Speed Logging) is configured |
| CSCvw23197 | BFD sessions go down on Service VPN after UTD is enabled on Cisco IOS XE SD-WAN device |
| CSCvw42048 | c1111 vtcp may cause packet drop for sip packets causing phones to reset |
| CSCvw81572 | Multiple crashes cpp_cp_svr and qfp-ucode on 16.12.4 |
| CSCvw83359 | AWS:c8kv crashed and reboots if shut/no shut an interface a number of times |
| CSCvw88098 | Cisco IOS XE SD-WAN device crashes while running web traffic testing with security features enabled |
| CSCvw93490 | CSR1000v crashing frequently with Critical software exception error. |
| CSCvx02009 | Cisco IOS XE SD-WAN device running 17.3.2 crashed - Critical software exception / IOSXE-WATCHDOG: Process = SNMP ENGINE |
| CSCvx11702 | C8500-12X4QC: Traffic drops on 10G interface with large packet size 9000bytes with High priority. |
| CSCvx15750 | SD-WAN:Cisco IOS XE SD-WAN device ipsec replay-window size decreases to 128 after a peer reloading |
| CSCvx21270 | SDWAN custom policy that does not looked to be programmed correctly on the Cisco IOS XE SD-WAN device. |
| CSCvx22449 | The FIB is not programmed as per the RIB entries |
| CSCvx23159 | FW-4-ALERT_ON: (target:class)-():getting aggressive seen when no half open feature configed |
| CSCvx32670 | Wrong reload reason reflected after a power outage. |
| CSCvx34623 | SIT : IOS exception seen and ASR reboots when a netconf is issued to get interface details |
| CSCvx36146 | DCHP offer frame getting dropped on Cisco IOS XE SD-WAN device ISR4431 due to Policy |
| CSCvx36763 | Zone Based Firewall on Cisco IOS XE SD-WAN device router dropping web traffic with the reason Zone-pair without policy |
| CSCvx41877 | skip statistics update when crypto engine is busy and throttling msgs |
| CSCvx43331 | CSR1000v: Crashes during reg_invoke_iosxe_license_export_controlled_enforcement_bypass |
| CSCvx45788 | cannot apply ciscosdwan.cfg due to vpg-log-server-acl ACL on VirtualPortGroup0 for logging |

| Bug ID | Description |
|----------------------------|--|
| CSCvx49311 | Cisco vManage pushing invalid "no shutdown" command to ISR Service-Engine interface |
| CSCvx51664 | For-us Icmp packets are collected by cflowd which against the data-policy |
| CSCvx53399 | fman_fp_image crashed with ZBFW config change |
| CSCvx54502 | sdwan control packets getting dropped when ACL applied |
| CSCvx57615 | ZBFW blocking ACK packets for applications using cloudexpress SaaS set to use a Gateway with synsent |
| CSCvx57718 | Remove "show internal omp rib vroute" cli from admin tech |
| CSCvx58099 | C8500-12X4QC does not send logs to Cisco vManage when harddisk is not installed |
| CSCvx59899 | ISR4431/K9 rebooting due to CPP crashing because of UTD feature. |
| CSCvx60385 | LTE (Last resort) Tunnel10 is flapping from up and down |
| CSCvx60842 | OnDemand Tunnel- Site-ID doesnt update after change it |
| CSCvx64846 | "show sdwan policy service-path/tunnel-path" command cause device crash |
| CSCvx73741 | custom app not getting detected after attached removed and re-attached- app-visibility is disabled |
| CSCvx74695 | SDWAN OnDemand Policy and ZBFW Packet drop due to Firewall Invalid Zone |
| CSCvx77203 | [17.5] Router crashed when sending traffic through non-SDWAN interface with DIA NAT + debug enabled |
| CSCvx78215 | An IOS XE device might crash at DoubleExceptionVector |
| CSCvx79113 | SDWAN Cisco IOS XE SD-WAN device : traffic simulation tool shows traffic blackhole |
| CSCvx84617 | ISR - Appnav service controller ucode crash during packet intercept from network |
| CSCvx88246 | Packets dropped due to firewall + data policy interop issue |
| CSCvx97718 | vtcp frees rx buffer when packet with expected next sequence arrives with no payload; phones reset |
| CSCvy06736 | Config out of sync after upgrading to 17.4.1 |
| CSCvy13735 | BFD tunnels stuck in down state after port-hop |
| CSCvy14126 | ISR4331 are crashing frequently 17.4.1b |
| CSCvy18691 | ASR1002HX-IPSECHW octeon ucode crashes when provisioned via SD-WAN |
| CSCvy25957 | Security container is dropping legitimate FIN,ACK Packets |

| Bug ID | Description |
|----------------------------|--|
| CSCvy35044 | Signature update failure - SSL-CERTIFICATE_VERIFY_FAILED |
| CSCvy44563 | cpp-mcplo-ucode crash due to stuck thread with extranet route leaking between vpns |
| CSCvy58266 | vDaemon crashes due to buffer overflow with read/write in TAM |
| CSCvu78406 | vSmart crash because of ompd process |
| CSCvv52442 | vSmart Upgrade From 20.1.12 to 20.3.1 Failing With Error "Failed to install: " |
| CSCvw14883 | Incorrect mapping for device specific variables from interface shaping rate |
| CSCvw16238 | Incorrect tag for omp routes in Real Time view |
| CSCvw20597 | Variables missing in Cisco vManage during template push. |
| CSCvw28645 | OIB: without change any ND global parameters, Cisco vManage automatically push template to all sites again |
| CSCvw37603 | ND template stay in DB when no branch associated to and cause image delete failure |
| CSCvw53680 | Limit of 30 notifications / min restriction for webhook alarm to be removed from UI |
| CSCvw62325 | Not able to copy a feature template if the description or name contains " " |
| CSCvw66441 | Cisco vManage GUI not accessible due to too many open file descriptors. |
| CSCvw69181 | OSPF alarm down seen on vamange, OSPF process is UP |
| CSCvw77794 | "Invalid IPv4 address" is shown when inputting IPV6 DNS field |
| CSCvw78837 | ND Template attach "Failed to create input variables for template: Failed to create input variables" |
| CSCvw82581 | vBond upgrade from 20.3.1 to 20.3.2 fails |
| CSCvw83988 | sdwan - Cisco vManage - ip helper not more than 1 is possible with Feature and Device Templates |
| CSCvw91545 | We are not able to change Controller Certificate Authorization options in Cisco vManage GUI |
| CSCvw96264 | UI showing console error after clicking on active/completed task as fails to show the details |
| CSCvw97278 | 20.4 policy name restrictions may break existing templates on upgrade |
| CSCvx00144 | SSH via Cisco vManage GUI timeout in 180 seconds |
| CSCvx07049 | Cisco vManage not displaying tunnel state correctly |
| CSCvx07210 | Cisco vManage showing old device hostname |
| CSCvx22960 | Not all routes getting pushed to device |

| Bug ID | Description |
|----------------------------|---|
| CSCvx23886 | CLI template does not push snmp-server community config |
| CSCvx27128 | DPD with default values on feature template is not pushed to Cisco IOS XE SD-WAN device |
| CSCvx33184 | Service proxy does not restart after ui certificate upload |
| CSCvx35130 | vBond software upgrade fails when selecting activate/reboot while upgrading |
| CSCvx37901 | nms_bringup file has ^M in each line after service restart as part of DR |
| CSCvx44643 | UC - unable to make modification to the translation rule once created from Cisco vManage UI |
| CSCvx52154 | Could not load host key: /var/run/ssh/ssh_host_ed25519_key |
| CSCvx52352 | CLI template does not push logging buffered community config |
| CSCvx52789 | Cisco IOS XE SD-WAN device- template failure - An element value is not correct : inspect. |
| CSCvx55749 | Cisco vManage logs are not pruned |
| CSCvx57151 | Update button stops working after adding DHCP option |
| CSCvx57718 | Remove "show internal omp rib vroute" cli from admin tech |
| CSCvx59998 | Cisco IOS XE SD-WAN device Upgrade to 17.3.3 failing due to "Failed to check active partition information" error message |
| CSCvx64613 | Issues detaching template when device is in CSR generated state |
| CSCvx66954 | Cisco vManage manage-user function is not working properly |
| CSCvx68246 | Changing Config-DB ID/Password from default to non-default on a cluster of more than 3 members |
| CSCvx72390 | ZTP software version enforcement does not respect software install timeout |
| CSCvx81621 | Cisco vManage dashboard doesn't show device status even when control is up/up |
| CSCvx83654 | invalid value for: prefix-entry Error when push advertise OMP prefix under vpn |
| CSCvx85487 | Configuration DB upgrade in cluster failed in 20.3.3 code |
| CSCvx86601 | The CSR properties in Cisco vManage config DB does not match with the certificate settings on Cisco vManage UI. |
| CSCvx86804 | c8500 / 17.3.2 / 17.4.1a / Cisco vManage is not pushing auto negotiation for 10Gig Interfaces on Cisco IOS XE SD-WAN device |
| CSCvx87163 | X-Forwarded-For header is passed through to local auth, leading to session creation errors |

| Bug ID | Description |
|----------------------------|--|
| CSCvx94730 | 20.3.3 alarms not working for BFD/Control issues |
| CSCvy01567 | Device template policy disappears from UI after selecting edit device template |
| CSCvy12257 | Cisco vManage becomes unresponsive after a high amount of email notifications getting generated. |
| CSCvy12485 | mismatch self-signed root certs between primary and secondary clusters |
| CSCvy18932 | Cisco vManage is not able to discover VPCs for Multi-cloud when >7 AWS accounts provisioned |
| CSCvy27218 | Socket connect leak when dr is enabled |
| CSCvy42621 | Unable to generate ciscotacro/rw token due to sessions being full |
| CSCvy42629 | API sessions not getting cleared out when "Max Sessions Per User" is set |
| CSCvy60928 | continuous logs of "Could not load host key: /var/run/ssh/ssh_host_ed25519_key" |
| CSCvy65210 | all stat-db settings except DPI is not available after DR registration |
| CSCvv58263 | VPN ethernet interface-Load interval-Vmanage config generate failure |
| CSCvx79862 | 20.4 : Secure SDWAN TUC's : Failed to acquire lock, template or policy lock in edit mode |

Open Bugs for Cisco IOS XE Release 17.3.4a

| Bug ID | Description |
|----------------------------|--|
| CSCvw60359 | Cisco IOS XE SD-WAN device-policy: set next-hop-ipv6 is not working next-hop-ip (ipv4) is working. |
| CSCvx25157 | sdwan control packets getting dropped when ACL applied |
| CSCvx25217 | cannot remove NAT configuration from the template in a single operation if NAT translation is active |
| CSCvx27965 | Cisco IOS XE SD-WAN device ipv6 netflow with high scale flows FNF does not working |
| CSCvx42400 | Cisco IOS XE SD-WAN device Experiences Unexpected reboot with: Last reload reason: Critical software exception |
| CSCvx84786 | NAT ALG breaks(Drops) ICMP control messages (ICMP Fragmentation Needed) for PMTUD |
| CSCvx90032 | CSR in Azure can fail to authenticate using AAD |
| CSCvx94285 | CSR crashes after oce_lookup_one_adj_id_handle while reading emu_mem. |
| CSCvy33007 | "Best of Worst" Fallback mode causes reachability issue when routes flap |

| Bug ID | Description |
|----------------------------|---|
| CSCvy33639 | SDWAN: CSR1000v deployed in Microsoft Azure throwing continuous errors on consol. |
| CSCvy37285 | SSH to Loopback not working |
| CSCvy41947 | EIO: Packets getting reassembled and are forwarded as it is to the Gigabit interface |
| CSCvy52270 | csr1kv/c8kv: Console Port Access change CLI does not work in CONTROLLER mode |
| CSCvy54314 | Data-policy local-tloc with app-route is dropping packets when SLA is not met |
| CSCvy55408 | C1121 router multiple crash. - session hash corrupted |
| CSCvy55507 | Cisco IOS XE SD-WAN devices are dropping incoming GRe keepalives due to implicit ACL |
| CSCvy58115 | Cisco IOS XE SD-WAN device : Cloudexpress Office 365 probes are hitting 100% loss |
| CSCvy64180 | Cisco IOS XE SD-WAN device C1121-4P crached with Localsoft error |
| CSCvy67301 | URL Filtering regex pattern match not working on large pattern |
| CSCvy73818 | Cisco IOS XE SD-WAN device QFP starts dropping traffic - UTD Service Node not healthy ident |
| CSCvy74482 | [FW] All traffic drops when edit security template on Cisco IOS XE SD-WAN device (18.4.6) from 20.3.4 Cisco vManage |
| CSCvy78123 | Cisco IOS XE SD-WAN device: High CPU usage due to Multicast and Data Policy configuration. |
| CSCvy79354 | Cisco IOS XE SD-WAN device traceroute result shows destination IP at first hop instead of actual next hop |
| CSCvy82696 | Cisco IOS XE SD-WAN device dropping packets [combination /16, /17 data prefix with multiple ports in policy] |
| CSCvy86497 | BFD session flap/down while control connection with Cisco vManage is going down |
| CSCvy90479 | On Demand Tunnel not working in 17.3.2 |
| CSCvy91411 | AAR not correctly programmed in ASR1001-X |
| CSCvu73826 | ND Failed with device template: Failed to edite device template if add-on CLI empty |
| CSCvv64821 | Cisco vManage Site Health shows wrong number of sites |
| CSCvw71474 | Attempt to create cluster fails when adding 2nd member to standalone Cisco vManage |
| CSCvw73392 | Frequent Cisco vManage UI timeout and stuck in Please continue waiting state. |
| CSCvx46554 | Cisco vManage reverting API changes after 5 minutes |

| Bug ID | Description |
|----------------------------|--|
| CSCvx93652 | Push vEdge list fails to vSmart with application error. |
| CSCvy01378 | Device Specific field is not usable |
| CSCvy07698 | 20.4 Getting Wrong Control Site Down Alarm alarms |
| CSCvy10009 | IR1101 template push error: bad-cli - No interface |
| CSCvy14627 | Activating changes in Security Policy that is attached to the vEdge will fail and lock the database |
| CSCvy15370 | Cisco vManage API running too frequently under Rediscover Network resulting in Page Loading too often |
| CSCvy20641 | SCP of WAN edge list to vBonds from Cisco vManage fails when TACACS is enabled on vBond. |
| CSCvy22394 | vAnalytics slowness in response to a query |
| CSCvy22416 | Security policies applied to incorrect interface in cluster mode, iptables |
| CSCvy29733 | Attach to the device fails, when CLI template is created via REST API in Cisco vManage |
| CSCvy31058 | zScalar configuration deletion happens in the wrong order. |
| CSCvy34596 | Cisco vManage upgrade is failing from 20.3.3.1 > 20.3.4 |
| CSCvy35209 | vEdge auth-order change not processed correctly |
| CSCvy35564 | Cisco vManage Webhooks doesn't work without Email notifications explicitly enabled |
| CSCvy38478 | Cisco vManage ver 19.2.4 crash, becomes unstable/unusable |
| CSCvy39849 | Cisco vManage pushes invalid service route command |
| CSCvy53930 | Failed to create deviceactionstatusnode table entry in DB for device: Validation |
| CSCvy56278 | vMange crashed due to kernal panic [20.3.3.1.2] |
| CSCvy59469 | OMP control connections of Cisco IOS XE SD-WAN device/vEdge devices goes down on decommissioning virtual vEdge |
| CSCvy69307 | Token fails to get generated when trying to login to Cisco hosted Cisco vManage via GUI |
| CSCvy75420 | Cisco vManage reports 'upgrade request failed in device' error after installing the software via ZTP |
| CSCvy75632 | vBond lost static route on vpn 0 and vpn 512 running 19.4.2 |
| CSCvy79095 | configuration db VMANAGE ROOT CA node is not updated |
| CSCvy82358 | On-prem Cisco vManage cluster went into a bad state and template push started failing |

| Bug ID | Description |
|----------------------------|---|
| CSCvy82623 | Cisco vManage giving error on login |
| CSCvy83020 | Cisco vManage UI is taking time to load first time |
| CSCvy88637 | Cisco vManage email notification - supporting special character & (ampersand) in the email address |
| CSCvy89483 | Cannot apply endpoint-tracker to Cisco IOS XE SD-WAN device via Cisco vManage template in service VPN |
| CSCvy90229 | Cisco vManage cluster management page should not show Sys IP in drop down of "Cisco vManage IP Address" |
| CSCvy90707 | IPS signature update not consistent on routers after Cisco vManage upgrade to 20.3.3.1 |
| CSCvy93261 | Cisco vManage nodes in a cluster with Stats-db ran into full GC allocation failure |
| CSCvy93431 | After upgraded the Cisco vManage from 20.3 to 20.6, UI is not getting loaded |
| CSCvs90123 | Cisco vManage became unusable after CPU spiked to 100% - no were operations performed during hike |
| CSCvs08693 | VPN label is changing upon Edge reboot |
| CSCvw79936 | 17.5 : Overnight OMPd traffic crash on Promethium. |
| CSCvy59073 | Web Server Certificate does not get imported ui certificate upload |
| CSCvy88437 | AWS VPN based: IPSEC tunnels from CGW C8kvs to TGW down on latest 20.6 build |
| CSCvy92487 | Control connection to the vBond failing because of ERR_SER_NUM_NT_PRESENT on the vBond. |
| CSCvy57678 | ISR4K :ompd memory incrementing for 17.3.2 |
| CSCvw78294 | 17.3 Loblaw: Pool overlod and Static Inside In2Out/Out2In fragmented packets are getting dropped |
| CSCvy73412 | Templatepush failed for C8300-2N2S-4T2X with error bad-cli-negotiation auto,parser-context |

Bugs for Cisco SD-WAN Controller Release 20.3.3.1

This section details all fixed and open bugs for this release. These are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Resolved Bugs for Cisco SD-WAN Controller Release 20.3.3.1

| Bug ID | Description |
|----------------------------|---|
| CSCvx35130 | vBond software upgrade fails when selecting activate/reboot while upgrading |

| Bug ID | Description |
|----------------------------|---|
| CSCvx59998 | Cisco IOS XE SD-WAN upgrade to 17.3.3 failing due to "Failed to check active partition information" error message |

Bugs for Cisco IOS XE Release 17.3.3

This section details all fixed and open bugs for this release. These bugs are available in the [Cisco Bug Search Tool](#)

Resolved Bugs for Cisco IOS XE Release 17.3.3

| Bug ID | Description |
|----------------------------|--|
| CSCvs31962 | Perf testing: Large policy config push took 60 mins for 75 Cisco IOS XE SD-WAN devices |
| CSCvu43317 | vBond connection Down Alarms or Events not appearing in Cisco vManage |
| CSCvv08199 | [SIT]: vsmart policy edit failed with transport closed error |
| CSCvv36080 | Seeing more hVNETs than maximum allowed |
| CSCvv40715 | Multilink interface can not be configured without ppp authentication |
| CSCvv41341 | Higher memory utilization on Cisco vManage 20.1 |
| CSCvv45021 | PPP feature templates cannot modify IP MTU on Dialer interface |
| CSCvv48087 | Task update issues, large customer setup with cluster |
| CSCvv52763 | 20.3 config-db upgrade script reports success even when it fails |
| CSCvv56750 | Cisco vManage UI does not accept controller group more than 1 |
| CSCvv57951 | Cisco IOS XE SD-WAN device: Option field in EIGRP template interface section is not working |
| CSCvv71357 | Cisco vManage GUI dashboard does not show number of Cisco vManage up when single node in cluster is down |
| CSCvv79430 | Cisco SDWAN Cisco vManage 20.3.1 unable to display IP address of user access in audit log |
| CSCvv86465 | Cisco vManage: Template Push fails with Unable to send line feed after string |
| CSCvv88104 | Reassign "oom_score_adj" Values in "sysmgr.conf" |
| CSCvv88334 | Email Notifications: with custom devices list a Number of 'Devices Attached' is blank when edit it |
| CSCvv98608 | config preview failed with Exception in callback: BGP AS Number couldn't be retrieved in service VPN |
| CSCvw04082 | Kernel Panic is seen after upgrade the Cisco vManage to 20.3 (watchdog) |

| Bug ID | Description |
|----------------------------|--|
| CSCvw20639 | SDWAN: IPv6 SDWAN Control connection between vSmart and Cisco IOS XE SD-WAN device lost |
| CSCvw22190 | Cluster activation failed because of a space in resource pool field in cluster config |
| CSCvw23740 | In a cluster, an App server starting dependency should check a cluster, not just local service |
| CSCvw26979 | Config-DB upgrade from 3.5.14 to 3.5.22 through Cisco vManage SW upgrade. |
| CSCvw28512 | Difference in ip address of interface and json causing the stats db and config db in waiting |
| CSCvw31235 | Add IPv6 OMP route support in Cisco vManage real time monitoring |
| CSCvw32352 | SDWAN: clear control connection on vsmart can cause missing DNS resolved entries for IPv4 sessions |
| CSCvw37918 | Configuration-db upgrade allowed when not needed |
| CSCvw39302 | 'dns-server-list' error seen when pushing DNS server IP update from Cisco vManage |
| CSCvw41702 | Cisco vManage dpi classification incorrect |
| CSCvw41883 | Cisco vManage template doesn't allow interface as next hop for static route |
| CSCvw42971 | Cisco vManage: Multiple DNS servers in DHCP template gives "Invalid IPv4 address" |
| CSCvw44368 | Translation profile/rules configured as part of a Voice policy not applied to dial-peers |
| CSCvw46769 | CLI template push to vBond fails with "Device failed to process request. null" error |
| CSCvw47429 | IPS Signature update - username that's more than 32 characters will fail with 'Maximum length: 64' |
| CSCvw50664 | Cisco vManage Optional OSPF Configuration Removed when Device Template Updated |
| CSCvw52973 | Cisco vManage UI is not coming up thread are stuck while updating factory default templates during startup |
| CSCvw53502 | Logfiles flooded with message of tegetattr: Input/output error |
| CSCvw56320 | on-prem Cisco vManage ungraded to 20.3.2 from 19.2.3 rebooting in an interval of 10-15 min |
| CSCvw58305 | UC SDWAN: Not able to see policy profile in Custom options. |
| CSCvw62577 | Reassign "oom_score_adj" Values for tracker |
| CSCvw63960 | Raise different alarm when reaching watermarks of Stats-DB disk allocation: low/high/flood |
| CSCvw64026 | Automatically changing Stats-DB to read-write mode when app server restart |

| Bug ID | Description |
|----------------------------|---|
| CSCvw68661 | Introduce basic stats collection backpressure [v1] |
| CSCvw68861 | Change for configdb query planner to hint more effectively via \$param instead of old-style {param} |
| CSCvw70138 | Old vAnalytics setting should not be migrated into CloudServices from GUI |
| CSCvw73445 | Add validation check for Blocklist and Redirect URL |
| CSCvw76649 | Cisco vManage 6 Node Cluster on Azure takes 2 mins to login to Cisco vManage UI. |
| CSCvw79756 | Cisco IOS XE SD-WAN device policy change taking a long time, and timing out. |
| CSCvw79982 | Cisco vManage 20.3.2.1 requires read-replicas to speed up GUI access |
| CSCvw91717 | after upgrading to from 17.3.2 to 17.4.1, the device loses control connections |
| CSCvw92805 | Local configuration not showing preview of config on Cisco vManage 20.3.2 |
| CSCvx03509 | Audit log flooded with logouts from DR cluster |
| CSCvx07685 | consul service is not enabled in DR registartion wth arbitrator |
| CSCvx09069 | Increase process wait timeout for configdb upgrade |
| CSCvx09308 | Escalations: coordination service logs GB log file filling up disk |
| CSCvx12847 | root-cert corrupted after upgrading to 20.3.2 code |
| CSCvv16718 | 17_3_1 throttle - Crash seen at ftmd process |
| CSCvv18117 | SIT : 'show sdwan bfd' output is empty even though bfd sessions are up |
| CSCvv24027 | Cisco IOS XE SD-WAN device: confd_cli may cause high cpu utilization after executing "show sdwan omp routes" |
| CSCvv42381 | [DyT]: TTM not updating link routes and omp routes are not getting updated |
| CSCvv58312 | 17.4 : Dataplane Crash due to driver cpp_drv_i95_read_cb observed on 4461 with traffic |
| CSCvv58652 | Cisco IOS XE SD-WAN device: Cloud-onramp for SaaS may report packet loss for O365/Office365 |
| CSCvv71831 | Cisco IOS XE SD-WAN device Speed test in Cisco vManage meet interface Loopback111 critical alarm (need to suppress) |
| CSCvv78028 | No responder-bytes from Cisco IOS XE SD-WAN device when UTD is enabled |
| CSCvv87062 | SDWAN 17.2.1/17.4.1 - Cisco IOS XE SD-WAN device router may restart after pushing multiple traffic data policies together |
| CSCvv91732 | packet-trace platform conditions do not work |

| Bug ID | Description |
|----------------------------|--|
| CSCvv99096 | CoR-SaaS shows 100% loss for dialer interface |
| CSCvw15509 | cisco C1111-8P - Ping to NAT pool ip punts CPU and responds to ping |
| CSCvw21753 | XE-SDWAN device would keep invalid IPv6 address in the tunnel to Cisco vManage and can not recover |
| CSCvw22905 | ISR/CSR: admin-tech-before not generated for IOS and non-viptela BinOS process failure |
| CSCvw36514 | Cisco IOS XE SD-WAN device crashes due to a large packet at vesen_ipsec_v4_input_get_vctrl_data |
| CSCvw36629 | Cisco IOS XE SD-WAN device: NATed tuple flips for HSL deleted flow |
| CSCvw39530 | Cloud-SaaS action does not program in Modify case |
| CSCvw41778 | Fragmented packets may be dropped inbound on tunnel of Cisco IOS XE SD-WAN device with service-side NAT configuration |
| CSCvw43365 | SD-WAN appqoe optimization will drop SYN with ECN bit set and delay TCP setup. |
| CSCvw46753 | After reload Cisco IOS XE SD-WAN device cellular interfaces in shutdown state are brought up |
| CSCvw52661 | crash. seen during sh plat sof sdwan fo next-hop overlay id 0xf8000090 |
| CSCvw54076 | [SIT]: BFD sessions not established between Edges, with UTD enabled |
| CSCvw54383 | DPI flow telemetry generated by IOS-XE, for some flows tunnel identifiers are missing |
| CSCvw55030 | Dynamic Nat pool "ip aliases" are not created on the device |
| CSCvw56676 | Cisco IOS XE SD-WAN device ISR4351 crashed with Critical process ftmd fault on rp_0_0 (rc=139) running version 17.3.1a |
| CSCvw58646 | Cisco IOS XE SD-WAN device: Inspect rule cannot be modified to accept or drop without deactivating the policy |
| CSCvw61731 | ASR-1K router is not programming correct next-hop for the destination prefix. |
| CSCvw62805 | SDWAN ZBFW CPU punted traffic mishandling -- Out2In packet looped |
| CSCvw72021 | nat pool config using sub-interfaces does not work after reload |
| CSCvw73701 | 17.4 ZBFW:Stale ACL entries seen on ASR1K |
| CSCvw88048 | Speed test initiated from ISR1k failed |
| CSCvw95069 | Packet towards LAN are sent towards VPN 0 WAN interface |
| CSCvx22995 | On-demand tunnel is not setup with AAR SLA class and CXP feature enabled |
| CSCvx32130 | Centralized policy does not work when contain local tloc entries in remote tloc(tloc-list) |

| Bug ID | Description |
|----------------------------|---|
| CSCvu72391 | Default route missing for second TLOC during script run, and control connection get stuck |
| CSCvv35569 | AMP data is not populated in Graphs under network level |

Open Bugs for Cisco IOS XE Release 17.3.3

| Bug ID | Description |
|----------------------------|---|
| CSCvv11604 | ISR 4000 Cisco IOS XE SD-WAN device : Only one T1 card is getting enabled via CLI template while two are inserted |
| CSCvv13313 | Select control connection TAB for any vsmarts, it will never show vbond connections |
| CSCvv41954 | Customer couldn't login to 19.2.3 Cisco vManage using SSO unless the browser cache is cleared |
| CSCvv86418 | Cloud OnRamp for Colo Port level view mapped ports on CSP to the wrong switch |
| CSCvv86662 | unable to perform packet capture on Cisco IOS XE SD-WAN device interface Sdwan-system-int-ipv4-172.16.155.15 |
| CSCvw15630 | Inconsistency between "show app flowd flows" and API response of DPI stats |
| CSCvw16238 | Incorrect tag for omp routes in Real Time view |
| CSCvw38077 | UI throwing "Failed to list cluster information:Unknown error" on cluster management page |
| CSCvw45135 | Mismatch in System CPU statistic -- "Real Time" and historical 1/3/6/12h |
| CSCvw50483 | Dashboard getting blank intermittently in singlenode 20.3.2.1-no response of agg APIs from stats-db |
| CSCvw54692 | Cisco IOS XE SD-WAN device Unable to configure ospf simple password authentication |
| CSCvw55764 | VNF Install fail - VNF packages are not sync'd/copied in new added Cisco vManage node in Cisco vManage cluster |
| CSCvw62341 | Cisco vManage Dashboard - Alarm time zone is tagging with incorrect time zone |
| CSCvw66441 | Cisco vManage GUI not accessible due to too many open file descriptors. |
| CSCvw68402 | Template push to Cisco IOS XE SD-WAN device fails when changing system-ip due to vsmart centralized policy |
| CSCvw69181 | OSPF alarm down seen on vamange, OSPF process is UP |
| CSCvw71474 | Attempt to create cluster fails when adding 2nd member to standalone Cisco vManage |
| CSCvw73392 | Frequent Cisco vManage UI timeout and stuck in Please continue waiting state. |

| Bug ID | Description |
|----------------------------|---|
| CSCvw77794 | "Invalid IPv4 address" is shown when inputting IPV6 DNS field |
| CSCvw83988 | sdwan - Cisco vManage - ip helper not more than 1 is possible with Feature and Device Templates |
| CSCvw85706 | Cisco vManage: UI is incorrectly showing the current version for Cisco vManage and vSmarts. |
| CSCvw91545 | We are not able to change Controller Certificate Authorization options in Cisco vManage GUI |
| CSCvw91647 | Issues with template created by API call |
| CSCvw91984 | ACI APIC to Cisco vManage integration issue |
| CSCvw92189 | Cisco vManage goes into out of memory resulting in slowness while pushing the template and accessing GUI. |
| CSCvw93203 | serverproxy-access.log not rotating in /var/log/nms |
| CSCvw96264 | UI showing console error after clicking on active/completed task as fails to show the details |
| CSCvw99518 | SSO SAMLResponse Error validating SAML message at re-authentication |
| CSCvx00144 | SSH via Cisco vManage GUI timeout in 180 seconds |
| CSCvx02002 | Cisco vManage did not validate if the template value of an interface name was correct. |
| CSCvx03552 | Configurations allows for multiple primary DNS servers |
| CSCvx04246 | Cisco vManage -- Template rollback when migrating EIGRP interfaces & VRFs -- 17.3 |
| CSCvx05353 | "request nms all status" command returning Python exception if container-mgr svc was stopped |
| CSCvx08817 | DHCP excluded-address command is not being pushed via Cisco vManage template |
| CSCvx08942 | Server slowness during GUI operations, system degrades until login is not possible |
| CSCvx09284 | Escalations: messaging service timeout |
| CSCvx11296 | Cisco IOS XE SD-WAN device reporting normal even though it is over warning threshold |
| CSCvx14444 | netconf connection failures while installing certificate |
| CSCvx14750 | Cisco vManage removes \ character when imported to cli template from running configuration |
| CSCvx16509 | audit-log: invalid session with a user due to inactivity even though app-server not shutdown |

| Bug ID | Description |
|----------------------------|--|
| CSCvx19853 | Cisco vManage CLI template push failing due to controller transaction ID error |
| CSCvx19889 | Creation of Cisco vManage DR Cluster Failed, GUI showing duplicate entry for DR Cisco vManage |
| CSCvx19948 | Shaper Rate and QoS Map device specific variable get reset when changed to "Per-tunnel-QoS" hub |
| CSCvx23886 | CLI template does not push snmp-server community config |
| CSCvx25217 | cannot remove NAT configuration from the template in a single operation if NAT translation is active |
| CSCvx25441 | Cisco vManage cluster does not show Graphs for less than 7 Days |
| CSCvx26988 | Cisco vManage App Route Visualization - Citrix Flows are missed in GUI |
| CSCvx28675 | UTD signatures update stopped working suddenly |
| CSCvx29421 | "Server Error, Details: Unable to get pcap session" is printed in the Cisco vManage GUI |
| CSCvx29967 | Fail to upload images to software repository post Cisco vManage upgrade to 19.2.4 |
| CSCvx34074 | /dataservice/device/omp/routes/advertised?deviceId reply is empty |
| CSCvx34991 | Cisco vManage - TACACS requests are sourced from old interface IP after IP changed |
| CSCvx36896 | Cisco vManage is unable to push both interface and ip as a next-hop |
| CSCvx37025 | Cisco vManage: Control connection up with Edge devices however, do not show up on Dashboard |
| CSCvx37092 | Cisco vManage DB can not boot up due to neo4j complains about older version |
| CSCvx41877 | skip statistics update when crypto engine is busy and throttling msgs |
| CSCvx44202 | C1121x-8P - doesn not recognize any of its switch interfaces |
| CSCvx34623 | SIT : IOS exception seen and ASR reboots when a netconf is issued to get interface details |
| CSCvs61448 | SDWAN/cEdge:Add errmsg() infra-structure to OMP Agent |
| CSCvv02594 | cEdge can not apply speed, duplex and negotiation in one vManage transaction |
| CSCvv05682 | GD box crashed @ stile code with 17.3.1 FC1 image |
| CSCvv48885 | can not update local-address in a crypto keyring |
| CSCvw02548 | tunnel interface remains up even when the physical interface not have IP address |
| CSCvw30618 | Not all OMP routes getting installed |

| Bug ID | Description |
|----------------------------|---|
| CSCvw46210 | Bfd session stuck in invalid state |
| CSCvw73769 | 17.4 ZBFW:Cpp_cp crash seen when a rule is added at beginning in automation on ASR1K |
| CSCvw81572 | Multiple crashes cpp_cp_svr and qfp-ucode on 16.12.4 |
| CSCvw85989 | SunRPC ALG resets connection with ZBFW inspection enabled |
| CSCvw88098 | cEdge crashes while running web traffic testing with security features enabled |
| CSCvw89001 | LTE interface is not getting IP address after upgrading teh router. |
| CSCvw90699 | The BFD sessions between cEdge routers are down due to IN_US_V4_PKT_SA_NOT_FOUND_SPI |
| CSCvw91056 | "Show sdwan bfd session" showing application communication failure |
| CSCvw93490 | CSR1000v crashing frequently with Critical software exception error. |
| CSCvx04133 | cEdge: TenGigabitEthernet interface in admin shut after reload |
| CSCvx09453 | It is possible to apply changes through TCL in cEdge device in vManage Mode |
| CSCvx15750 | SD-WAN:cEdge ipsec replay-window size decreases to 128 after a peer reloading |
| CSCvx17563 | ISR4331/K9 running 16.12.04 crashed with Segmentation fault(11), Process = Cellular CNM |
| CSCvx18991 | cedge Plogd BFD events messages are not human readable for bfd-state-change |
| CSCvx21270 | SDWAN custom policy that does not looked to be programmed correctly on the cedge platform |
| CSCvx22449 | The FIB is not programmed as per the RIB entries |
| CSCvx22522 | crash seen on ISR4461 |
| CSCvx25157 | sdwan control packets getting dropped when ACL applied |
| CSCvx27086 | cEdge unexpected reboot - Stuck CPP Thread |
| CSCvx28872 | Switchport Feature Template is not working Properly - Missing VLANs on VLAN-DATA BASE |
| CSCvx28956 | cEdge crash on upgrade from 16.12.4 to 17.3.2 |
| CSCvx35533 | user locked out while upgrading cEdge 16.09.06 to 17.3.2 |
| CSCvx36146 | DCHP offer frame getting dropped on cEdge ISR4431 due to Policy |
| CSCvx36763 | Zone Based Firewall on cEdge router dropping web traffic with the reason Zone-pair without policy |

| Bug ID | Description |
|----------------------------|--|
| CSCvx36940 | Loopback flap error after upgrading the cedge's to 17.3.2 |
| CSCvx39761 | cEdge Traceback @cpp_vbuginf_flags_error seen with 16.12.14 while connected to AWS 19.2.3 |
| CSCvx45788 | cannot apply ciscosdwan.cfg due to vpg-log-server-acl ACL on VirtualPortGroup0 for logging |

Bugs for Cisco SD-WAN Controller Release 20.3.2.1

This section details all fixed and open bugs for this release. These are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Resolved Bugs for Cisco SD-WAN Controller Release 20.3.2.1

| Bug ID | Description |
|----------------------------|---|
| CSCvv88104 | Reassign "oom_score_adj" Values in "sysmgr.conf" |
| CSCvw04082 | Kernel Panic is seen after upgrade the vmanage to 20.3 |
| CSCvw26979 | Config-DB upgrade from 3.5.14 to 3.5.22 through vManage SW upgrade. |
| CSCvw63960 | Raise different alarm when reaching watermarks of Stats-DB disk allocation: low/high/flood |
| CSCvw65073 | Cloudservices Radio button needs enable/disable separate check box for vAnalytics and Monitoring |
| CSCvw68661 | Introduce basic stats collection backpressure [v1] |
| CSCvw68861 | Change for configdb query planner to hint more effectively via \$param instead of old-style {param} |

Open Bugs for Cisco SD-WAN Controller Release 20.3.2.1

| Bug ID | Description |
|----------------------------|---|
| CSCvw68410 | Messaging server and App-server is not getting started upon VM shutdown/start |
| CSCvw72087 | Full GC (Allocation Failure) on Standalone Cisco vManage running 264 devices |
| CSCvw72269 | Cisco vManage GUI is not accessible: upstream connect error |
| CSCvw62577 | Reassign "oom_score_adj" Values for tracker |

Bugs for Cisco IOS XE Release 17.3.2

This section details all fixed and open bugs for this release. These bugs are available in the [Cisco Bug Search Tool](#)

Resolved Bugs for Cisco IOS XE Release 17.3.2

| Bug ID | Description |
|----------------------------|--|
| CSCvr71672 | Cisco PKI Root Certificates not installed in recent images - - Polaris Side commit |
| CSCvt48480 | Flow monitor is removed from interface configuration on reload |
| CSCvt50136 | ASR1k - all Platform : Observing IpFragErr for EMIX traffic with basic IPSEC config |
| CSCvt75088 | ISR4451: 'Protocol not in this image' logs are seen after advertise network <prefix> config commit |
| CSCvt76844 | ASR1002-X ESP crash in multikey_hash_ager_tw_timer_to() |
| CSCvt79205 | ASR1001-X: 'show environment' is no longer monitoring R0 voltage sensors |
| CSCvt97086 | ESPx : CMAN-FP process crash for get_fpga_version API fails |
| CSCvt97642 | MIP100 - Continuous %SCOOPY-5-SERIAL_BRIDGE_BLOCK_EVENT flooding on the console |
| CSCvu02362 | fmap_fp crash seen on removing utd ssl config with container uninstallation |
| CSCvu10006 | Performance monitor caused QoS miss classification |
| CSCvu25212 | The "from Tunnel" direction of the Traffic Data Policy does not get apply on the IOS XE SDWAN |
| CSCvu26585 | "req plat software trace archive" fails with "STORAGE_TARGET: unbound variable Operation failed" |
| CSCvu27953 | Crash due to a segmentation fault in the "IPsec background proc" process |
| CSCvu30539 | Inbound CoPP policy causes outbound packets to fail to show up in EPC |
| CSCvu38580 | Getvpn PFS logging enhancement |
| CSCvu47358 | [cEdge-DiaTracker]configuration not getting updated through device template , |
| CSCvu49754 | Deleting a Voice Port on CUCM Shuts Down Additional Voice Ports on MGCP Gateway |
| CSCvu53184 | cEdge - CLI should ask for confirmation of request software reset |
| CSCvu63628 | 17.3: cEdge -show sdwan omp vpn <> 0.0.0.0/0 detail broken on cEdge |
| CSCvu65369 | Link auto-negotiation fails between C1111-4P ES-4 switch module and Meraki MX100 |
| CSCvu73323 | AAR policy does not work properly after Poweroff/Poweron Cedge ISR4451 |
| CSCvu75604 | 17.3: EFT Customer seeing an issue with show sdwan app-route stats command |
| CSCvu79087 | ASR1K:16.12.4 => 17.3.1: sessions classified based on CTS SGT/DGT are not synced to the standby |

| Bug ID | Description |
|----------------------------|--|
| CSCvu81329 | sec policy pushing fail when remove L7 app from rule and action to drop |
| CSCvu89214 | IOS-XE+ZBFW+CUBE: One-way Audio. TCP 5060 is not recognized as SIP. |
| CSCvu95098 | GETVPN group member drops traffic due to replay failure every 497 days |
| CSCvu95121 | Static NAT outside breaks locally generated TCP/UDP traffic |
| CSCvu99045 | NIM-1GE-CU-SFP/NIM-2GE-CU-SFP: Show interface output reports incorrect bandwidth |
| CSCvv00899 | Adaptive QoS history record LOCAL-LOSS is always 0 on ISR1000 platform |
| CSCvv01250 | IGMP reports are forwarded to mrouter port untagged regardless of which VLAN the group is in |
| CSCvv01509 | Data policy `from-tunnel` is not programmed if `from-service` presented |
| CSCvv03800 | ASR1002X lost all configuration after upgrade from 16.12 to 17.3 |
| CSCvv04236 | IOS-XE: IPv6 OSPF authentication ipsec - adjacency fails |
| CSCvv04959 | GRUB2 Arbitrary Code Execution Vulnerability |
| CSCvv05895 | ASR1001-X: Issue a cpld reset instead of reboot in kcrash |
| CSCvv08341 | Netconf deleting wrong IKEv2 parameters |
| CSCvv08952 | FirewallNotInitiator drops with ZBFW for DIA traffic over Dialer interface with UTD enabled |
| CSCvv09538 | [SIT] Ramanos lost control and crashed after attaching device template |
| CSCvv09651 | NAT packet drops with IN_US_V4_PKT_FOUND_IPSEC_NOT_ENABLED sub-code |
| CSCvv09707 | Secondary KS does not push new policy after merge if IPD3P is configured |
| CSCvv12401 | ZBFW HA redundancy stuck in STANDBY-COLK-BULK. Bulksync Traceback seen in logs |
| CSCvv14263 | Day 0 Config Bringup after Power OFF/ON C1121X-8PLTEP |
| CSCvv14438 | Azure csr-ledge 17.3.1-throttle (7/16) fresh-deploy crash once@qfp-ucode-csr when shut/no shut Gi1 |
| CSCvv17488 | [ISR4K + SM-X-ES3-* module] Memory leak in iomd |
| CSCvv17730 | IP DHCP Snooping not working for the voice vlan |
| CSCvv18712 | QoS classification failing with DSCP bits on IPSEC+QoS+Mcast when applied on service side interfaces |
| CSCvv19063 | ASR1K, C9800 Commit config clean up for cstate and pstate to 17.4, 17.3.2, 17.2.2: backout idle=poll |

| Bug ID | Description |
|----------------------------|--|
| CSCvv20380 | Removing and Adding Bulk ACL leads to Tracebacks and Error-Objects |
| CSCvv21398 | sdwan multicast cEdge rpf failure even with unicast route present in rib and omp |
| CSCvv25529 | 16.12.4 ucmk9 cedge not able to join overlay with 19.2.3 and 20.3 |
| CSCvv25601 | sipline: VG450 stopped operating due to low mem threshold |
| CSCvv26538 | Crash due to a NULL pointer while bringing down PPPoE sessions. |
| CSCvv27349 | tunnel interface remains up even when the physical interface not have IP address |
| CSCvv33349 | %IOSXE_INFRA-3-PUNT_ADDR_RES_ENCAP_ERR: seen repeatedly in LISP coworking with VASI |
| CSCvv33576 | IGMP snooping table not populated on ISR4k |
| CSCvv34057 | ISR4351:Crash seen with ZBFW. Reboot reason:Critical process qfp_ucose_utah fault on fp_0_0 (rc=139) |
| CSCvv35386 | Unexpected reload seeing after resequencing ACLs |
| CSCvv38449 | cpp_sp_svr on XE router cpp_fm_cace_alloc_dp unable to allocate memory |
| CSCvv40754 | Backward compatibility issue for model between vManage version 20.3 and device version 17.2 |
| CSCvv55435 | ASR1001-X ftmd crash: ftm_tunnel_sla_tunnels_get_object |
| CSCvv58919 | Police to PPS is not configurable on ISR4K |
| CSCvv59662 | cEdge may crash when template with big security policy pushed |
| CSCvv63517 | Static ip sdwan route does not work with endpoint tracker after upgrade to 17.3.1a |
| CSCvv64271 | IOS-XE SD_WAN router crashed after upgrade to 17.3.1a |
| CSCvv67689 | cEdge data-policy breaks SRST media stream with default-action accept or accept in sequence |
| CSCvv71587 | Alpha OEAP: AP not able to join eWLC due to the Keyman process is down |
| CSCvv73691 | PMTU Discovery may negotiate an incorrect MTU on XE SDWAN routers |
| CSCvv73826 | BFD sessions flap after multiple control connection flaps to the vSmart. - Polaris side commit |
| CSCvv75649 | Large tcp stream fails DNS translation |
| CSCvv75771 | XE SDWAN router crash due to system memory exhaustion caused by FTM memory growth |
| CSCvv82330 | When large number of policies are applied to a ASR1001-X running 17.3.1, traffic is dropped. |

| Bug ID | Description |
|----------------------------|--|
| CSCvv83271 | endpoint-tracker for a tunnels malfunctioning |
| CSCvv83345 | Summary/default-map routes getting ignored for p2p interface |
| CSCvu77890 | CSR1000v rebooted with reason 'CPU Usage due to Memory Pressure exceeds threshold' |
| CSCvv85766 | Memory leak upon ssh/scp connections to a router |

Open Bugs for Cisco IOS XE Release 17.3.2

| Bug ID | Description |
|----------------------------|---|
| CSCvs29562 | ISRV-cEdge 16.12.1b RFC2544 IPv4 performance on CSP5436: 8VCPU SRIOV throughput degrade significant |
| CSCvt32383 | ASR1000 / RP2 upgrade fails from 16.9.4 to the 16.9.5 |
| CSCvt92164 | sslvpn PD : large file download fails over sslvpn |
| CSCvt97326 | ASR1k: haddisk usage is always zero in "show platform resource" for consolidated platforms |
| CSCvu06483 | Data consistency errors seen on configuring mac-sec on the underlay interface with ipsec configured |
| CSCvu32446 | ISR4451 rebooted with reason_code "CPU Usage due to Memory Pressure exceeds threshold" |
| CSCvu46417 | ASR1k crash when doing a FIB lookup |
| CSCvu59952 | ISR4461: Control Connections over sub-interface are down after upgrade, TX Channel create failure |
| CSCvu63985 | Telit case 00161045: IR1101 - Upon bootup LM960 modem Firstnet SIM no IP when LTE tech AUTO |
| CSCvu75453 | ESP20 Rommon upgrade fails from 15.3(3r)S to 16.2(1r) |
| CSCvu77711 | Missing Mandatory Transform Type (ESN) in IKEv2 ESP Protocol |
| CSCvu77745 | PMAN-3-PROCFAIL: Chassis 1 R0/0: pman: R0/0: The process keyman has failed (rc 139) |
| CSCvu89597 | RM crash at __be_address_cmp __be_avl_get_next while doing shut/no shut or BR |
| CSCvu89599 | BR crash at __be_strlen __be_fman_rtmap_create_route_map_msg |
| CSCvv17346 | unexpected reload due to Crypto IKEv2 process |
| CSCvv29416 | CLI template push for banner login <> configuration fails on cedge |
| CSCvv40206 | Router may crash under ZBF configuration |

| Bug ID | Description |
|----------------------------|---|
| CSCvv42381 | [DyT]: TTM not updating link routes and omp routes are not getting updated |
| CSCvv45963 | QoS odd behaviour with percentage based policing |
| CSCvv48885 | can not update local-address in a crypto keyring |
| CSCvv49788 | Errors on WLC "Chassis 1 R0/0: wncd: Connection DOWN with Map server IP" for LISP map server |
| CSCvv50783 | IPSEC tunnels to AWS TGW failing when VPN tunnel doesn't allow all traffic |
| CSCvv54152 | CDP on interfaces is not enabled when CDP is enabled globally on ASR Routers in controller mode |
| CSCvv58652 | O365 CoR-SaaS shows random losses |
| CSCvv59591 | ENH: Add support for TACACS/RADIUS as sdwan tunnel service |
| CSCvv61071 | memory leakage of cpp_sp_svr |
| CSCvv66589 | cEdge is not able to ping its own loopback |
| CSCvv71775 | Cellular interface down/up frequently occurs with SORACOM sim(DoCoMo MVNO) |
| CSCvv76523 | Recursive configuration with privilege exec level <level> show dmvpn [detail static] |
| CSCvv78028 | No responder-bytes from cEdge when UTD is enabled |
| CSCvv79273 | Router may crash when using Stateful NAT64 |
| CSCvv81296 | Protocol specific change for base path |
| CSCvv84345 | ASR1K Crash on configuring IP NAT inside source list under VRF |
| CSCvv87062 | SDWAN 17.2.1/17.4.1 - cEdge router may restart after pushing template with QoS |
| CSCvv88621 | GETVPN: All GM will crash when Primary KS recovers its COOP role after network outage |
| CSCvv91575 | C1111-8P: NAT translations packet counter MIB OID counts unnecessary additional value |
| CSCvv92571 | C1111 reboot-loop is seen once upgrade to 17.3.1a |
| CSCvv94743 | Data Plane fails over L2TPv3 while disabling VLAN limit restrictions with ASR1002-HX |
| CSCvv97321 | ISR44xx shows RP serial number instead of chassis serial in "sh license UDI" CLI output |
| CSCvv98708 | cEdge sees cpp-mcplo-ucode crash |
| CSCvv99096 | CoR-SaaS shows 100% loss for dialer interface |

| Bug ID | Description |
|----------------------------|---|
| CSCvw01038 | [cEdge/CSR1kv] IPv6 Underlay, IPv6 fragmented but packet size is smaller than MTU |
| CSCvw02527 | ASR1k NAT66 communication failure when change the NAT66 prefix configuration. |
| CSCvw02548 | tunnel interface remains up even when the physical interface not have IP address |
| CSCvw03736 | Netflow exporter traffic is sent with a UDP source port of 0. |
| CSCvw05211 | Pre-mature session deletion leading to churn and lower TPS at scale |
| CSCvw06719 | "platform ipsec reassemble transit" tail-drops unencrypted IPv4 Fragments with specific payload |
| CSCvw06780 | DMVPN with ipv6 link-local address do not register to HUB |
| CSCvw09093 | route not getting installed, need to remove and reattach the template |
| CSCvw10808 | After SIM OIR, SIM is not detected after SIM failover on C1109-2PLTEGB |
| CSCvw10972 | NAT64 ALG: Router crashes on nat64_process_token |
| CSCvw11902 | Passive FTP doesn't work with NAT |
| CSCvw12561 | GETVPN : Order of configuration of PFS in GKM group |
| CSCvw14836 | ISR router running 16.9.6 crashes authenticating crypto certificate |
| CSCvw16091 | vEdge/cEdge - rekey timer expires, but tunnels stay up |
| CSCvw16253 | IOS-XE 16.12.1 - platform punt-policer has some wrong default values |
| CSCvw16304 | Async: First line of NIM/SM-async module get unexpected char when VDSL active |
| CSCvw16816 | ISR 4k fails to install new IPSec SAs |
| CSCvw17996 | cEdge: fman-fp core / watch dog failure on 17.2.1r in do_lookup_x |

Bugs for Cisco IOS XE Release 17.3.1a

This section details all fixed and open bugs for this release. These bugs are available in the [Cisco Bug Search Tool](#)

Resolved Bugs for Cisco IOS XE Release 17.3.1a

| Bug ID | Description |
|----------------------------|--|
| CSCuz84374 | SPA modules on ASR1002-X/ASR1001-X does not get recognized under show platform |
| CSCvh24730 | PfRv3: Crash while Printing the Same TCA Message |
| CSCvp24405 | Router crash after adding macsec reply-protection command on an interface |
| CSCvp79052 | vManage is not exhibiting the correct hostname of cEdge |

| Bug ID | Description |
|----------------------------|---|
| CSCvp88044 | Performance Monitor crash |
| CSCvq84015 | ISR1100 not booting up after power cycle and gets stuck in boot loop - cdb itself gets corrupted |
| CSCvr48928 | Template push stuck on vManage Cluster when pushing new System IP to Edge router |
| CSCvr89957 | CFT crashed frequently |
| CSCvs02000 | %IOSXE-3-PLATFORM: R0/0: kernel: DMA: Out of SW-IOMMU space |
| CSCvs19084 | UmbrellaConnector drops packets sent from Linux machine |
| CSCvs27907 | Ctrl+Z causes syntax error: unknown argument |
| CSCvs28073 | IOS-XE device has memory leak in linux_iosd-imag |
| CSCvs29412 | x509 SSH authentication incorrect UPN value selected |
| CSCvs38028 | cEdge_Policy_regression: Service IPv6 ping is failing if the interface vrf forwarding is replaced |
| CSCvs42498 | NAT Alias not created for some configuration when using application redundancy |
| CSCvs45107 | AnyConnect fails to reconnect when original session expires |
| CSCvs47682 | Router crashed when attempting to remove a nonexistent trustpoint from dspfarm profile |
| CSCvs48162 | Seeing IsecOutput drop for cEdge even though ip packet size is less than 1442. |
| CSCvs51630 | cEdge: 'security ipsec replay-window' needs to support 8192 |
| CSCvs53749 | EVPN RMAC stale routes seen |
| CSCvs56559 | show crypto pki server shows wrong expire certificate date |
| CSCvs56721 | spoke-to-spoke PLR packets should not change the interface PLR status |
| CSCvs57212 | NGIO Lite is crashed when MT SMS with special characters (EMS) is received |
| CSCvs59402 | Random IPSEC drops on ESP200 with esp-gcm transform set |
| CSCvs60195 | ASR1K ucode crash after too many locks in ZBF pair setup |
| CSCvs61402 | CFLOW_INSERT ABORT errors continue to increment |
| CSCvs63606 | Ping fails on hundred gig primary interface with FRR configured though MPLS traffic is not impacted |
| CSCvs63841 | SDWAN ISR1100: No SW Image listed when .bin image booted from flash / usb |
| CSCvs65950 | IOS PKI: P12 not generated on IOS Sub CA at rollover certificate generation |

| Bug ID | Description |
|----------------------------|---|
| CSCvs66091 | XE SD-WAN Router SSH might get disabled followed by software reset and another reload |
| CSCvs75958 | ISR4331/K9 Dialer cannot make calls suddenly |
| CSCvs78594 | NAT doesn't translate SIP header's original source for return traffic on 16.9.3 and 16.9.4 |
| CSCvs81161 | Orthrus: Interface is down after shut/no shut. |
| CSCvs81791 | Fix for kernel driver issue causing wake up for empty block, packet too large to process |
| CSCvs81967 | ISR4K: %BOOT-3-BOOT_SRC: R0/0: No space on boot/dev/bootflash5 for packages, using bootflash! |
| CSCvs85642 | ISR G3 router crashes when rtp-nte DTMF packet arrives at MTP + BDI |
| CSCvs88686 | ISR4K / ASR / CBR8 crash in cpp_cp_svr due to watchdog timeout |
| CSCvs89840 | Cedge reboot with UNIX-EXT-SIGNAL: Segmentation fault(11), Process = iosp_vty_100001_dmi_nesd |
| CSCvs90207 | On cEDGE all the BFD session flap if there is a control connection flap to vmanage |
| CSCvs96540 | SDWAN device admin-tech has empty "show running config" in /tech/ios file |
| CSCvs96719 | ASR1k: Unicast DHCPREQUEST dropped when received on a EoGRE tunnel configured with VRF |
| CSCvs98389 | Packet drops in XE-SDWAN because of "IN_CD_COPROC_ANTI_REPLAY_FAIL" errors |
| CSCvs98586 | Skip SDWAN tunnel encapsulated packets in UTD DP and set inspected flag when skipping inspection |
| CSCvs99705 | PKI CLI - no warning that rsakeypair name starting from 0 (zero) is not working for cert regenerate |
| CSCvt01186 | Interface does down when "l2vpn xconnect" command is removed |
| CSCvt01532 | SD-WAN router running 16.10.3 crashes with cpp_cp_svr fault |
| CSCvt02534 | ISR4K Unexpectedly Reboots with CENT-BR-0 |
| CSCvt03264 | UltimaThule: ISR4451 router crashed when template is pushed from vManage |
| CSCvt03869 | Router reloads due to crypto pki crl request <trustpoint-name> during get a fresh copy of CRL |
| CSCvt04864 | cpp_cp_svr fault and fman_fp_image fault on ASR 1002-x routers running 16.12.2r |
| CSCvt05373 | SDWAN device and vmanage is not in sync when manual software reset is done |

| Bug ID | Description |
|----------------------------|--|
| CSCvt10151 | Multiple Cisco Products Snort HTTP Detection Engine File Policy Bypass Vulnerability UTD |
| CSCvt10499 | "Exporter Version" is not correct in the FNF cpp client exporter show command |
| CSCvt11538 | Cisco SD-WAN Solution Software Buffer Overflow Vulnerability |
| CSCvt12299 | XE SD-WAN : Cannot specify the specific vpn except <1-512> in show sdwan app-fwd cflowd flows vpn x |
| CSCvt15167 | Cedge QOS Policy-Map on Parent Interface Maps Traffic to Wrong Queue When Traffic on Sub-Int |
| CSCvt15551 | Crash observed in QFP in ASR1001-X running 16.06.05 when GPM is running low |
| CSCvt19873 | ASR1k:Router stops forwarding traffic with MPLS TE & FRR when member link of port-channel is shut |
| CSCvt21263 | Crash upon delete of virtual-access when virtual-template has "no tunnel protection ipsec initiate" |
| CSCvt21373 | unexpected reload in CPP ucode forced by nat 514 . |
| CSCvt21691 | VLAN1 is allowed on the trunk port even though it is not allowed in configurations of C111 interface |
| CSCvt28541 | XE SD-WAN : cflowd not working after re attaching template |
| CSCvt31561 | TBAR is not disabled in GM when it is disabled in KS |
| CSCvt31588 | CSR on AWS - PAYG Broken in 17.1, 17.2, and Polaris |
| CSCvt33018 | MACsec 128/256 XPN on 40g/100g, stop passing traffic for one of AN and interface link flap seen |
| CSCvt33028 | Part of double encapsulated frames dropped with TunnelDecapTooManyTimes code reason |
| CSCvt33799 | Virtual address not reachable: "mac:0000:0c07:xxxx download to DP failed" for HSRP / VRRP over BDI. |
| CSCvt35947 | Duplicate ipv6 address while connecting to remote client |
| CSCvt37676 | cEdge crashes after changing flow-sampling-interval within a cflow policy |
| CSCvt40523 | GETVPN: KS 16.12.x - COOP switchover causes GMs to immediately use new TEK rekey |
| CSCvt42659 | Possible Regression ISR4K Mgmt Port ACL Breakage or simply Day One Implementation As Designed |
| CSCvt46779 | Route export not working as desired during failover testing |
| CSCvt50461 | cEdge crashes after the push of a template for Umbrella |

| Bug ID | Description |
|----------------------------|---|
| CSCvt52051 | IPsec tunnel is getting established for a backup NHS DMVPN hub |
| CSCvt52168 | SSH Process Thrash During Normal Operations |
| CSCvt52825 | Memory leak in SCCP TLS Client on unexpected deregister event |
| CSCvt53726 | Packet Duplication fails to duplicate packets in Cedge Devices |
| CSCvt54305 | Device crashed after Boost license expire |
| CSCvt59311 | ASR1K crash when modifying crypto keyring configuration |
| CSCvt65588 | FlexVPN IKEv2 Tunnel route removed after establishing new IKEv2 SA to another peer |
| CSCvt67752 | Object (IPv6 ACL) stuck in forwarding data plane. No ipv6 traffic goes towards the upstream router |
| CSCvt80422 | RTP-NTE to OOB DTMF Interworking Failure over BDI with Dot1q Tagging |
| CSCvu34653 | CSR stuck in Bootloop while upgrading to 17.2.1r on Azure. |
| CSCvu57682 | ASR1001-X 16GB: Kernel crashes repeatedly after upgrading from 16.12.2 to 17.2.1 |
| CSCvu82189 | Enabling guestshell gives "float division by zero" |
| CSCvu89033 | Template push error due to NAT-MIB process helper traceback/warm restart |
| CSCvu54116 | virtio interfaces not discovered by IOS when host MTU config > 1518 |
| CSCvt44918 | Incorrect PMTU programmed for XE SDWAN router tunnel control-plane while data-plane is correct |
| CSCvs84169 | IPSec HMAC drops between after stress traffic and link flap |

Open Bugs for Cisco IOS XE Release 17.3.1a

| Bug ID | Description |
|----------------------------|---|
| CSCvt32383 | ASR1000 / RP2 upgrade fails from 16.9.4 to the 16.9.5 |
| CSCvt50136 | ASR1k - all Platform : Observing IpFragErr for EMIX traffic with basic IPSEC config |
| CSCvt97642 | MIP100 - Continuous %SCOOBY-5-SERIAL_BRIDGE_BLOCK_EVENT flooding on the console |
| CSCvu59952 | ISR4461: Control Connections over sub-interface are down after upgrade, TX Channel create failure |
| CSCvu59956 | IOS cannot boot with 16.12(1r) or later rommon due to cookie PID field incorrectly programmed |
| CSCvu73323 | AAR policy does not work properly after Poweroff/Poweron Cedge ISR4451 |

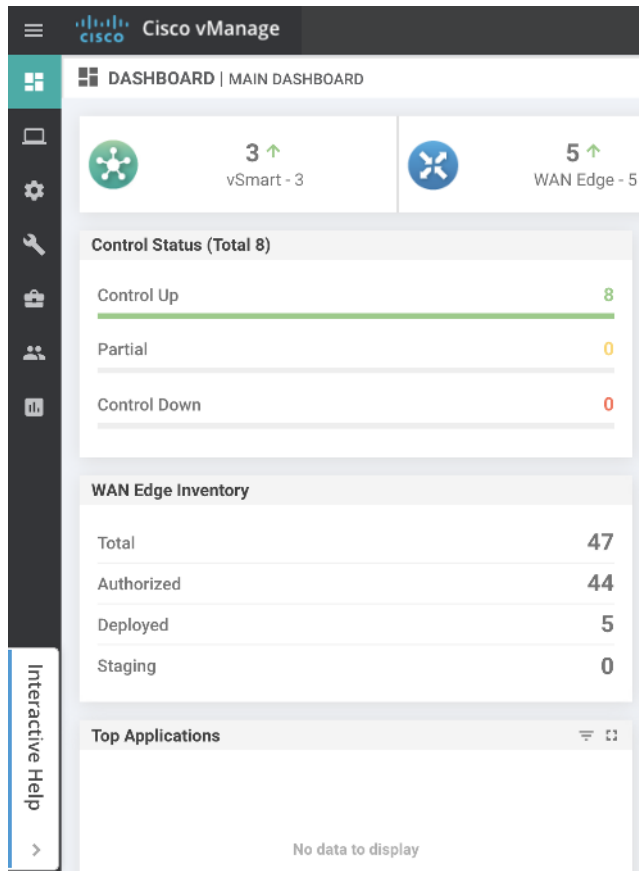
| Bug ID | Description |
|----------------------------|--|
| CSCvu81329 | sec policy pushing fail when remove L7 app from rule and action to drop |
| CSCvu85325 | CSR1000V not processing padded and unknown option Hop-by-Hop Options Headers |
| CSCvu92277 | Memory leak observed for FTM process leading to a device crash eventually. |
| CSCvv00899 | Adaptive QoS history record LOCAL-LOSS is always 0 on ISR1000 platform |
| CSCvv05364 | ASR1001-HX, CCP crash due to invalid address accessed by DTL |
| CSCvv05776 | CXP Probe DNS packets are not exiting via correct source interface |
| CSCvv06021 | 20.3 vSmart Failover Induced vManage/Device Connection Failure |
| CSCvv14438 | Azure csr-ledge 17.3.1-throttle (7/16) fresh-deploy crash once@qfp-ucode-csr when shut/no shut Gi1 |
| CSCvv21398 | sdwan multicast cEdge rpf failure even with unicast route present in rib and omp |
| CSCvv22768 | [RM]-Observing router reload after saving the QOS+APP_PERF config in RAMONES |
| CSCvv27215 | SDWAN 17.3/20.3 - SNMP MIB Query for Interface Description OID return only up to 64 characters |
| CSCvu02362 | fmap_fp crash seen on removing utd ssl config with container uninstallation |
| CSCvv43957 | Template push on ISR1k not working due to no authentication timer "reauthenticateError" |
| CSCvv48890 | vAnalytics - Launch vAnalytics not working in Cisco vManage UI |

Interactive Help in Cisco vManage

To access the list of guided workflows for this release, from Cisco vManage, click **Interactive Help**.

The Interactive Help interface allows you to search for a specific workflow and filter the search results by workflow names.

Figure 1: Interactive Help in Cisco vManage



This release provides guided workflows for the following procedures:

Table 3: List of Workflows Using Cisco vManage 20.3.1

| Workflow | Description |
|--|--|
| Configure Controllers and Devices | |
| Configure Cisco vBond Orchestrator | Configure the Cisco vBond Orchestrator and add it to the overlay network. |
| Configure Cisco vSmart Controller | Configure a Cisco vSmart Controller to control data traffic flow throughout the network. |
| Configure Cisco vManage Instance | Configure a Cisco vManage instance by creating a device configuration template and adding it to the overlay network. |
| Configure Cisco SD-WAN Devices | Configure Cisco IOS XE SD-WAN devices and Cisco vEdge devices by creating configuration templates. |
| Manage Devices in Overlay Network | |

| Workflow | Description |
|---|--|
| Add Devices to the Overlay Network | Add Cisco SD-WAN devices either by using authorized serial numbers or from Cisco Smart account. |
| Decommission Virtual Devices | Decommission a Cisco IOS XE SD-WAN device or Cisco vEdge device to remove the device serial number. |
| Remove Devices from the Overlay Network | Remove Cisco SD-WAN devices to clear an old device configuration from the Cisco vManage server. |
| Change Device Values | Change Cisco SD-WAN device configuration by populating the variable values for the device. |
| Troubleshoot Device Issues | Determine and fix common Cisco SD-WAN device connectivity issues. |
| Upgrade Devices and Controllers | <p>Install and activate an upgraded software for Cisco SD-WAN controllers and Cisco SD-WAN devices.</p> <p>You cannot use this workflow for:</p> <ul style="list-style-type: none"> • Cisco SD-WAN controller releases earlier than 20.3.1 • Cisco SD-WAN device releases earlier than 17.3.1a or 20.3.1 |

Whom to contact for feedback?

We value your opinion and please send us your feedback at, <mailto:sdwan-workflow-fb@cisco.com>

Controller Compatibility Matrix and Server Recommendations

For compatibility information and server recommendations, see [Cisco SD-WAN Controller Compatibility Matrix and Server Recommendations](#).

Supported Devices

For device compatibility information, see [Cisco SD-WAN Device Compatibility](#).

Related Documentation

- [Release Notes for Previous Releases](#)
- [Software Installation and Upgrade for Cisco IOS XE Routers](#)
- [Software Installation and Upgrade for vEdge Routers](#)
- [Field Notices](#)
- [Recommended Releases](#)
- [Security Advisories](#)
- [Cisco Bulletins](#)

