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

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

Note To achieve simplification and consistency, the Cisco SD-WAN solution has been rebranded as Cisco Catalyst SD-WAN. In addition, from Cisco IOS XE SD-WAN Release 17.12.1a and Cisco Catalyst SD-WAN Release 20.12.1, the following component changes are applicable: **Cisco vManage** to **Cisco Catalyst SD-WAN Manager**, **Cisco vAnalytics** to **Cisco Catalyst SD-WAN Analytics**, **Cisco vBond** to **Cisco Catalyst SD-WAN Validator**, **Cisco vSmart** to **Cisco Catalyst SD-WAN Controller**, and **Cisco Controllers** to **Cisco Catalyst SD-WAN Control Components**. See the latest Release Notes for a comprehensive list of all the component brand name changes. While we transition to the new names, some inconsistencies might be present in the documentation set because of a phased approach to the user interface updates of the software product.

These release notes accompany the Cisco IOS XE Catalyst SD-WAN Release Amsterdam 17.3.x, which provides Cisco SD-WAN capabilities. They include release-specific information for Cisco Catalyst SD-WAN Controllers, Cisco Catalyst SD-WAN Validators, and Cisco SD-WAN Manager, as applicable to Cisco IOS XE Catalyst 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 Catalyst SD-WAN Release Amsterdam 17.3.x

This section applies to Cisco IOS XE Catalyst 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	
Support for Dialer Interface in DSL	This feature enables tracking of a Point-to-Point Protocol (PPP) session over a dialer interface on Cisco IOS XE SD-WAN devices. 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. The command **dialer down-with-vInterface** is added to bring down the dialer interface when the PPP session goes down.
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 Catalyst SD-WAN Devices	Cisco IOS XE Catalyst 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.

Feature	Description
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 SD-WAN Manager interface and shows you where to click next and what to do to complete a selected workflow.
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 SD-WAN Manager. Once enabled, Cisco SD-WAN Manager 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	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. For Cisco vManage Release 20.3.1 this feature can only be configured using CLI Add-On feature templates in Cisco vManage.
Remove Certificate SUDI requirement.	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.
Integration with Cisco Unified Communications	This release adds support for using a feature template to enable Cisco IP-based media services.
Dynamic On-Demand Tunnels	This feature enables you to configure an Inactive state for tunnels between edge devices, reducing performance demands on devices and reducing network traffic.
Static Route Tracker for Service VPNs	This feature enables you to configure IPv4 static route endpoint tracking for service VPNs. For static routes, endpoint tracking determines whether the configured endpoint is reachable before adding that route to the route table of the device. 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.
NAT DIA Tracker for Cisco IOS XE SD-WAN Devices	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. You can configure DIA Tracker using the **Tracker** tab of the Cisco System template. You can apply the tracker to a transport interface using either Cisco VPN Interface Ethernet or Cisco VPN Interface Cellular templates.
Service Side NAT on Cisco IOS XE SD-WAN devices	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. 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. 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.
Qualified Commands for Cisco IOS XE Release Amsterdam 17.3.1a	Starting Cisco IOS XE Catalyst SD-WAN Release 17.3.1a, you can use additional commands in CLI Add-on feature templates.
Routing	

Feature	Description
BGP Community Propagation	This feature enables propagation of BGP communities between routing protocols during route redistribution. One 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 redestribution 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 SD-WAN Manager	When working with the Cisco Technical Assistance Center (TAC) to address an issue in Cisco SD-WAN Manager, users may provide TAC with access to Cisco SD-WAN Manager or TAC teams may access Cisco SD-WAN Manager 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 Catalyst 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 SD-WAN Manager 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 SD-WAN Manager 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 SD-WAN Manager. 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 SD-WAN Manager Upgrade Paths

For information about Cisco SD-WAN Manager upgrade procedure, see Upgrade Cisco SD-WAN Manager Cluster.

Starting Cisco SD-WAN Manager Version	Destination Version		
	19.2.x	20.1.x	20.3.x
18.x/19.2.x	Direct Upgrade	Direct Upgrade	Check disk space* • If the disk space is more than 2GB: Direct Upgrade • If the disk space is less than 2GB: Step upgrade through 20.1 • If you are upgrading to 20.3.5, the available disk space should be at least 2.5 GB. For cluster upgrade procedure**: **request nms configuration-db upgrade** **Note** We recommend the data base size in the disk is less than or equal to 5GB. Use the `request nms configuration-db diagnostic` command to check the data base size. This is applicable only for upgrades of devices running Cisco SD-WAN Manager Release 20.1.1 and later.

Starting Cisco SD-WAN Manager Version	Destination Version		
	19.2.x	20.1.x	20.3.x
20.1.x	Not Supported	Direct Upgrade	Direct Upgrade For cluster upgrade procedure**: **request nms configuration-db upgrade** **Note** We recommend the data base size in the disk is less than or equal to 5GB. Use the `request nms configuration-db diagnostic` command to check the data base size. This is applicable only for upgrades of devices running Cisco SD-WAN Manager Release 20.1.1 and later.
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
  ```



Note We recommend the data base size in the disk is less than or equal to 5GB. Use the `request nms configuration-db diagnostic` command to check the data base size. This is applicable only for upgrades of devices running Cisco SD-WAN Manager Release 20.1.1 and later.

- Enter login credentials, if prompted. Login credentials are prompted if all Cisco SD-WAN Manager 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 Catalyst SD-WAN Release 17.3.8a

Resolved Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.8a

Bug ID	Description
CSCwh87343	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability

Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.8

Resolved Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.8

Identifier	Headline
CSCwc68069	RTP packets not forwarded when packet duplication enabled, no issue without duplication feature
CSCvx25157	Cisco Catalyst SD-WAN control packets getting dropped when ACL applied
CSCwb44275	Simulated flows with NAT DIA result in crash consistently
CSCwb07307	17.6.2ES-2: BFD down on spoke after 'clear sdwan omp all' on HUB due to CD_IN_PKT_OUT_OF_WINDOW eror
CSCwc77003	Prefix through hub not intalled in FIB, with OD Tunnels, seeing drops due to Firewall Policy
CSCwe38296	The Cisco Catalyst 8500 Procyon Packets drop due to MACSEC post-encryption padding behavior
CSCwb18223	SNMP v2 community name encryption problem

Open Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.8

Identifier	Headline
CSCwf14727	FNF ucode crash when add or remove interface

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.8

Open Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.8

Identifier	Headline
CSCwh68093	IPV4 Subnet Mask drop-down options are floating and Cisco SD-WAN Manager is getting frozen in Firefox browser

Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.7

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 Catalyst SD-WAN Release 17.3.7

Identifier	Headline
CSCwe43341	The TLS control-connections down, traffic from controller dropped with SdwanImplicitAclDrop.
CSCwb44275	The Simulated flows with NAT DIA result in crash consistently.

Open Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.7

Identifier	Headline
CSCwb07307	The 17.6.2ES-2: BFD down on spoke after 'clear sdwan omp all' on HUB due to CD_IN_PKT_OUT_OF_WINDOW eror.
CSCvx25157	Cisco SD-WAN control packets getting dropped when ACL applied.
CSCwc77003	The prefix through hub not intalled in FIB, with OD Tunnels, seeing drops due to FirewallPolicy
CSCwb18223	The SNMP v2 community name encryption problem.

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.7

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.7

Identifier	Headline
CSCwb52326	Admin-tech on Cisco SD-WAN Manager cluster nodes takes one hour due to elastic search

Identifier	Headline
CSCwc72071	Control connections down due to controller certificate missing on all the controllers.
CSCwd46383	Cisco SD-WAN Software Denial of Service Vulnerability

Open Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.7

Identifier	Headline
CSCwe07891	Cisco SD-WAN Manager 20.10 "vedge-ESR-6300-NCP" is an invalid value for template push.
CSCwd85846	The DTLS session with the Cisco SD-WAN Validator does not come up due to OOO packets received at the Cisco vEdge devices.
CSCwe38227	MT overlay not coming up with 20.3.7 image

Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.6

Resolved Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.6

Identifier	Headline
CSCvz37661	17.6 to 17.7 : Continuous 4461 Octeon crypto crash. does not stay up.
CSCwb35884	DNS endpoint-tracker doesn't work properly for dialer when DNS server configured later
CSCwa52915	Replicator with direct multicast source reachability should be preferred among selected replicators
CSCwb32059	Cellular interface tracker Down but NAT route persists in the Service VPN Routing Table
CSCwa92082	RG B2B(Box to Box), Interchassis HA, STBY is stuck in STANDBY COLD-BULK on ISR 4461
CSCvz40788	Cisco Catalyst SD-WAN tunnels are not coming up in Multilink Frame relay sub-interface
CSCwb43605	Cisco IOS XE Catalyst SD-WAN device OMPd crash during RIB-out attribute aspath/community processing
CSCwa67886	UDP based DNS resolution doesn't work with IS-IS EMCP on IOX-XE
CSCvz84588	Destination prefix packets getting dropped because forwarding plane is not programming the next hop.
CSCvy99344	Cisco IOS XE Catalyst SD-WAN device: Multicast UnconfiguredIpv4Fia drop when multicast interworks with service chain/NAT DIA
CSCwa04960	[SIT] OMPD process memory leak seen on Cisco IOS XE Catalyst SD-WAN device

Identifier	Headline
CSCvx30410	DIA not working as expected when Service Side NAT is in place.
CSCwa49721	Cisco Catalyst SD-WAN HUB with firewall configured incorrectly dropping return packets when routing between VRFs
CSCvz69103	Pending obejcts and download failure with policy update from 17.7.1 throttle image
CSCwb21195	Cisco Catalyst SD-WAN ASR Cisco IOS XE Catalyst SD-WAN device sees Anti-Replay drops when sequence number is beyond 32 bit
CSCwa81471	AOM pending objects with loopbacks binded to tloc-extended interfaces
CSCwa73783	Incorrect Cisco IOS XE Catalyst SD-WAN device COR for SAAS Policy Sequence Programming
CSCwb02851	ISR1K and ISR4K gets unexpected reload due to memory corruption
CSCvz38018	Cisco IOS XE Catalyst SD-WAN device reloads unexpectedly when issuing OMP shutdown from the CLI
CSCvx27965	Cisco IOS XE Catalyst SD-WAN device ipv6 netflow with high scale flows FNF does not working
CSCvy47279	C1111 device crashed when PPPoE(running NAT) cable pulled out
CSCwa92411	Slowness issues casued by intermittent traffic drop on ISRv ingress from GRE tunnel
CSCwb76509	Assert failure while showing FTM (Forwarding Traffic Manager) data in NH TYPE switch case
CSCwa64993	CXP for SaaS takes more than 5 min to detect indirect path failure over TLOC-extension
CSCwa98545	Checks of route leaks creates memory corruption.
CSCvz81428	SIT : vedaemon assert noticed in the ISR 4221 over weekend longevity
CSCwb59736	CSR BFD tunnel are zero with Cisco Catalyst SD-WAN version 17.03.03.0.7
CSCwa57873	Incorrect reload reason - Last reload reason: LocalSoft for Netconf Initiated request
CSCvy89362	Remove warning log QOS-3-INVALID_BQS_QUEUE_INFO due to LSM/0 for Cisco IOS XE Catalyst SD-WAN device multicast traffic

Open Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.6

Identifier	Headline
CSCwb43423	Cisco IOS XE Catalyst SD-WAN device: IOS XE image installation fails
CSCvy33007	"Best of Worst" Fallback mode causes reachability issue when routes flap
CSCvx25157	Cisco Catalyst SD-WAN control packets getting dropped when ACL applied

Identifier	Headline
CSCvx25217	Cannot remove NAT configuration from the template in a single operation if NAT translation is active
CSCvy37285	SSH to Loopback not working
CSCvv48885	Can not update local-address in a crypto keyring
CSCwa77373	Device stuck in bootloop due to PNP process when Gi0 is DHCP enabled for a new device.
CSCvx18302	[SIT] Speed Test to Internet failing on vEdges and Cisco IOS XE Catalyst SD-WAN devices running 20.3/17.3
CSCvx69420	tunnel interface remains up even when the physical interface not have IP address
CSCwb44275	Simulated flows with NAT DIA result in crash consistently
CSCwb05743	Crash seen with umbrella config during soak run
CSCvz04121	"show Cisco SD-WAN tunnel statistics bfd" and "clear Cisco SD-WAN tunnel statistics" issues
CSCwb74821	yang-management process confd is not running, controller mode 17.6.2a
CSCwc77003	Prefix through hub not intalled in FIB, with OD Tunnels, seeing drops due to FirewallPolicy
CSCvx40516	17.5 ZBFW + NAT: Traffic flow In2Out scenario failed
CSCwc55467	BFD Tunnel on Cisco SD-WAN router is not staying up, 1 out of 40 tunnels.
CSCwa53223	Cisco IOS XE Catalyst SD-WAN device app-route policy not load balancing traffic as expected when SLA doesn't meet
CSCvx74917	[17.5 Umbrella] DNS Packets are not redirected to configured Custom DNS after Umbrella Template Edit
CSCwb18223	SNMP v2 community name encryption problem

Bugs For Cisco Catalyst SD-WAN Control Components Release 20.3.6

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.6

Identifier	Headline
CSCvz32341	Custom application list not replicated in Disaster Recovery for a Single Node Cisco SD-WAN Manager Cluster
CSCwc13452	Memory leak in Cisco SD-WAN Controller-OMP
CSCvy73412	Templatepush failed for C8300-2N2S-4T2X with error bad-cli-negotiation auto,parser-context

Identifier	Headline
CSCvx61152	OMP crashing due to OOM during initial boot up or churn
CSCvz28684	Huge Data replication observed during DR process of 3 node cluster running 20.3.4
CSCvx77774	Null Pointer Exception is seen on visiting software image repo page on Cisco SD-WAN Manager
CSCvy40849	Password getting written in clear text in NSO audit log and Cisco SD-WAN Manager log
CSCvz24023	Root cert sync not working for large scale deployments
CSCvy67842	Cisco SD-WAN: Cisco SD-WAN Manager Software Information Disclosure Vulnerability

Open Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.6

Identifier	Headline
CSCwc72071	Control connections down due to controller certificate missing on all the controllers.
CSCwc82326	Admin-tech generation takes ~1 hour
CSCwc68006	Traffic engineering needs to be reconfigured every time new site is added to ondemand tunnels policy
CSCvv64821	Cisco SD-WAN Manager Site Health shows wrong number of sites
CSCwc52341	Cisco SD-WAN Manager takes 10 mins to resume template push following control connection flap
CSCwc08344	TLOC down/up events do not match in Cisco SD-WAN Manager cluster
CSCwc82000	Certificate is displayed on the Cisco SD-WAN Manager UI even though controller CLI no longer hold the certificate
CSCvz34413	Replication will start from time 0 if replication leader entry not present replicationstatus table
CSCwc83720	Configdb restore results in erroneous view on Software repository and Enable ZTP
CSCwc44186	Getting Maximum session limit reached when trying to ssh to Cisco edge devices from Cisco SD-WAN Manager
CSCwc41731	Cisco SD-WAN Manager does not display realtime information if the user is logged in through TACACS.
CSCwb76421	DPI stats processing is limited to 1 to 1.3 TB per day

Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.5

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 Catalyst SD-WAN Release 17.3.5

Bug ID	Description
CSCvu32446	ISR4451 rebooted with reason_code "CPU Usage due to Memory Pressure exceeds threshold"
CSCvw60359	Cisco IOS XE Catalyst SD-WAN device-policy: set next-hop-ipv6 is not working next-hop-ip (ipv4) is working.
CSCvw73769	17.4 ZBFW:Cpp_cp crash seen when a rule is added at beginning in automation on ASR1K
CSCvw79936	OMPd crash seen on WAN Edge with policy push/access
CSCvw85989	SunRPC ALG resets connection with ZBFW inspection enabled
CSCvw88366	The data traffic failing in SIG + firewall config
CSCvx68704	Cisco IOS XE Catalyst SD-WAN device Packet-Duplication is duplicating traffic on same transport
CSCvx84031	Endpoint-tracker is not pushed from 20.4.1 Cisco SD-WAN Manager and Cisco IOS XE Catalyst SD-WAN device running 17.03.02
CSCvy09857	[SIT] Cisco IOS XE Catalyst SD-WAN device ISR 1100 multi process crash on 17.4.2
CSCvy54314	Data-policy local-tloc with app-route is dropping packets when SLA is not met
CSCvy58115	Cisco IOS XE Catalyst SD-WAN device : Cloudexpress Office 365 probes are hitting 100% loss
CSCvy64180	Cisco IOS XE Catalyst SD-WAN device C1121-4P crahed with Localsoft error
CSCvy78123	Cisco IOS XE Catalyst SD-WAN device: High CPU usage due to misconfigured data policy matching multicast traffic
CSCvy91411	Cisco Catalyst SD-WAN policy is not correctly programmed in Cisco IOS XE Catalyst SD-WAN device
CSCvz09330	Bootstrap aaa config issues due to default aaa config
CSCvz16095	Cisco IOS XE Catalyst SD-WAN device-Auto-rp is not propagating some of the multicast groups properly
CSCvz55789	Data-policy direction-all with empty action is causing to ignore app-route-policy
CSCvz69124	ISR4k:BFD scaling: Not able to scale more that 2048 BFD sessions
CSCvz70734	Cisco IOS XE Catalyst SD-WAN device crash with sdwan overlay multicast: "CPU Usage due to Memory Pressure exceeds threshold"

Bug ID	Description
CSCvz71121	The tracker stale probe present in router
CSCvz80197	FTMD message error
CSCwa25256	Installing new enterprise wan edge cert does not remove old cert causing device to use old cert
CSCwa19074	Infinite output from command show sdwan tunnel sla
CSCvy22338	SIT : ftmd core seen is seen during a Cisco IOS XE Catalyst SD-WAN device reboot (one of dual router)
CSCwa11628	Umbrella Certificate is not getting copied to HW device causing umbrella integration to fail
CSCwa22412	The ftmd crash during reload
CSCvy43586	Unexpected reset in ftmd process during stress test
CSCvx89142	Show endpoint tracker does not show timeout happening after mul value of multiplier and interval
CSCvz09460	Remote Server: Dont send userid and password in download notifications
CSCvz31260	DP CPU degradation in Collab and Contact center flows on ISR4451 platform on 17.3 throttle
CSCvu92178	CSV file upload does not import values for variables used in cli add on template
CSCvw32884	Response message (with IDP "success" status) does not match request via Cisco SD-WAN Manager SAML logout
CSCvx97579	Cisco SD-WAN Manager Multicoud on ramp, cant attach 8kv - GUI form cant see the UUIDs entered
CSCvy07698	20.4 Getting Wrong Control Site Down Alarm alarms
CSCvy22914	Cisco SD-WAN Manager GUI down 20.3.3 due to Full GC (Allocation Failure)
CSCvy56278	Cisco SD-WAN Manager crashed due to kernal panic [20.3.3.1.2]
CSCvy59469	OMP control connections of Cisco IOS XE Catalyst SD-WAN device/vEdge devices goes down on decommissioning virtual vEdge
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.
CSCvy97321	The omp route propagation delays due to constant marker resets on TLOC flap
CSCvz02284	Cisco SD-WAN Manager disaster recovery not replicating the statistics database
CSCvz16093	Cisco SD-WAN Manager CSR generation failed

Bug ID	Description
CSCvz28451	"request nms update-internal-ip new-ip" does not work on Cisco SD-WAN Manager 20.3.4
CSCvz43823	Cisco SD-WAN Manager is not able to discover VPCs for Multi-cloud when >14 AWS accounts provisioned
CSCvz69856	Cisco SD-WAN Manager - After upgrade to 20.4.2 or 20.6.1 feature template field is not optional anymore
CSCvz78622	Change user groups from operator to netadmin fails
CSCvz07202	Tenant creation is failing on 20.3.3 MT cluster Cisco SD-WAN Manager
CSCvx83494	Cisco SD-WAN Manager GUI Authentication with RADIUS working only if user with random password configured in CLI
CSCvy75593	Continuous logs of "Could not load host key: /var/run/ssh/ssh_host_dsa_key"
CSCvw68402	Template push to Cisco IOS XE Catalyst SD-WAN device fails when changing system-ip due to vsmart centralized policy

Open Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.5

Bug ID	Description
CSCvv48885	Can not update local-address in a crypto keyring
CSCvv82985	dhcpv6_relay:dhcp-client on branch not receive ipv6 address
CSCvw70245	AMP Retrospective events not showing on API endpoint
CSCvw78294	17.3: Pool overlod and Static Inside In2Out/Out2In fragmented packets are getting dropped
CSCvx25157	sdwan control packets getting dropped when ACL applied
CSCvx27965	Cisco IOS XE Catalyst SD-WAN device ipv6 netflow with high scale flows FNF does not working
CSCvx69420	Tunnel interface remains up even when the physical interface not have IP address
CSCvy33007	"Best of Worst" Fallback mode causes reachability issue when routes flap
CSCvy37285	SSH to Loopback not working
CSCvy47279	C1111 device crashed when PPPoE(running NAT) cable pulled out
CSCvy55408	router multiple crash. - session hash corrupted
CSCvy55507	Cisco IOS XE Catalyst SD-WAN devices are dropping incoming GRe keepalives due to implicit ACL
CSCvx40516	17.5 ZBFW + NAT: Traffic flow In2Out scenario failed

Bug ID	Description
CSCvs90123	Cisco SD-WAN Manager became unusable after CPU spiked to 100% - no were operations performed during hike
CSCvv64821	Cisco SD-WAN Manager Site Health shows wrong number of sites
CSCvx98106	Cisco SD-WAN Manager user sessions not getting cleaned up, approx 19700 active sessions
CSCvz28684	Huge Data replication observed during DR process of 3 node cluster running 20.3.4
CSCvz32341	custom application list not replicated in Disaster Recovery for a Single Node Cisco SD-WAN Manager Cluster
CSCvz34413	replication will start from time 0 if replication leader entry not present replicationstatus table
CSCvz40247	Security policies applied to incorrect interface in cluster mode, iptables
CSCvz62751	Cisco SD-WAN Manager: Noticed RouteMap attribute modification failure , while attempting through CLI Template
CSCvz63280	vEdge Does Not Respond Properly to vSmart Policy Prefix-list Changes (CLI Policy)
CSCvz75471	New sequence in RPL with set as-path has both prepend and exclude as required fields
CSCwa38524	Cisco SD-WAN Manager 20.3.5: Cisco IOS XE Catalyst SD-WAN device upgrade fails with java.lang.Exception
CSCvz66256	Filtering the data based on local tloc is returning no data in Cisco SD-WAN Manager GUI for DPI stats
CSCwa08191	DB backup fail after upgrade 20.3 -> 20.6 -> 20.7
CSCvy69307	Token fails to get generated when trying to login to Cisco hosted Cisco SD-WAN Manager via GUI
CSCwa75574	17.3.5: TSN crash with qfp-ucode-tsn-le
CSCwa75343	17.3.5: ISR 4221 router crashed with multiple core files

Bugs for Cisco IOS XE Catalyst SD-WAN 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 Catalyst SD-WAN Release 17.3.4a

Bug ID	Description
CSCvu93871	SDWAN 17.3/20.3- Cisco IOS XE Catalyst SD-WAN device1002HX- FTMD crash during traffic test run

Bug ID	Description
CSCvv53387	Cisco IOS XE Catalyst SD-WAN device is sending incorrect if index values for the sub-interfaces.
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 Catalyst 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 Catalyst 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 Catalyst 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 Catalyst 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 Catalyst 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 Catalyst SD-WAN device ISR4431 due to Policy
CSCvx36763	Zone Based Firewall on Cisco IOS XE Catalyst 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

Bug ID	Description
CSCvx45788	cannot apply ciscosdwan.cfg due to vpg-log-server-acl ACL on VirtualPortGroup0 for logging
CSCvx49311	Cisco SD-WAN Manager 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 SD-WAN Manager when harddisk is not installed
CSCvx59899	ISR4431/K9 rebooting due to CPP crashing becaue 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 Catalyst 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

Bug ID	Description
CSCvy18691	ASR1002HX-IPSECHW octeon ucode crashes when provisioned via SD-WAN
CSCvy25957	Security container is dropping legitimate FIN,ACK Packets
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	Cisco SD-WAN Controller crash because of ompd process
CSCvv52442	Cisco SD-WAN Controller 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 SD-WAN Manager during template push.
CSCvw28645	OIB: without change any ND global parameters, Cisco SD-WAN Manager 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 SD-WAN Manager 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	Cisco SD-WAN Validator upgrade from 20.3.1 to 20.3.2 fails
CSCvw83988	sdwan - Cisco SD-WAN Manager - 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 SD-WAN Manager 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 SD-WAN Manager GUI timeout in 180 seconds

Bug ID	Description
CSCvx07049	Cisco SD-WAN Manager not displaying tunnel state correctly
CSCvx07210	Cisco SD-WAN Manager showing old device hostname
CSCvx22960	Not all routes getting pushed to device
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 Catalyst SD-WAN device
CSCvx33184	Service proxy does not restart after ui certiticate upload
CSCvx35130	Cisco SD-WAN Validator 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 SD-WAN Manager 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 Catalyst SD-WAN device- template failure - An element value is not correct : inspect.
CSCvx55749	Cisco SD-WAN Manager 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 Catalyst 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 SD-WAN Manager 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 SD-WAN Manager 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

Bug ID	Description
CSCvx86601	The CSR properties in Cisco SD-WAN Manager config DB does not match with the certificate settings on Cisco SD-WAN Manager UI.
CSCvx86804	c8500 / 17.3.2 / 17.4.1a / Cisco SD-WAN Manager is not pushing auto negotiation for 10Gig Interfaces on Cisco IOS XE Catalyst SD-WAN device
CSCvx87163	X-Forwarded-For header is passed through to local auth, leading to session creation errors
CSCvx94730	20.3.3 alarms not working for BFD/Control issues
CSCvy01567	Device template policy dissapears from UI after selecting edit device template
CSCvy12257	Cisco SD-WAN Manager becomes unresponsive after a high amount of email notifications getting generated.
CSCvy12485	mismatch self-signed root certs between primary and secondary clusters
CSCvy18932	Cisco SD-WAN Manager 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-Cisco SD-WAN Manager config generate failure
CSCvx79862	20.4 : Secure SDWAN TUC's : Failed to aquire lock, template or policy lock in edit mode

Open Bugs for Cisco IOS XE Catalyst SD-WAN Release 17.3.4a

Bug ID	Description
CSCvw60359	Cisco IOS XE Catalyst 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 Catalyst SD-WAN device ipv6 netflow with high scale flows FNF does not working
CSCvx42400	Cisco IOS XE Catalyst SD-WAN device Experiences Unexpected reboot with: Last reload reason: Critical software exception

Bug ID	Description
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
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 Catalyst SD-WAN devices are dropping incoming GRe keepalives due to implicit ACL
CSCvy58115	Cisco IOS XE Catalyst SD-WAN device : Cloudexpress Office 365 probes are hitting 100% loss
CSCvy64180	Cisco IOS XE Catalyst SD-WAN device C1121-4P crahed with Localsoft error
CSCvy67301	URL Filtering regex pattern match not working on large pattern
CSCvy73818	Cisco IOS XE Catalyst 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 Catalyst SD-WAN device (18.4.6) from 20.3.4 Cisco SD-WAN Manager
CSCvy78123	Cisco IOS XE Catalyst SD-WAN device: High CPU usage due to Multicast and Data Policy configuration.
CSCvy79354	Cisco IOS XE Catalyst SD-WAN device traceroute result shows destination IP at first hop instead of actual next hop
CSCvy82696	Cisco IOS XE Catalyst 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 SD-WAN Manager is going down
CSCvy90479	On Demand Tunnel not working in 17.3.2
CSCvy91411	AAR not correctly programmed in ASR1001-X

Bug ID	Description
CSCvu73826	ND Failed with device template: Failed to edite device template if add-on CLI empty
CSCvv64821	Cisco SD-WAN Manager Site Health shows wrong number of sites
CSCvw71474	Attempt to create cluster fails when adding 2nd member to standalone Cisco SD-WAN Manager
CSCvw73392	Frequent Cisco SD-WAN Manager UI timeout and stuck in Please continue waiting state.
CSCvx46554	Cisco SD-WAN Manager reverting API changes after 5 minutes
CSCvx93652	Push vEdge list fails to Cisco SD-WAN Controller 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 SD-WAN Manager API running too frequently under Rediscover Network resulting in Page Loading too often
CSCvy20641	SCP of WAN edge list to Cisco SD-WAN Validators from Cisco SD-WAN Manager fails when TACACS is enabled on Cisco SD-WAN Validator.
CSCvy22394	SD-WAN Analytics 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 SD-WAN Manager
CSCvy31058	zScalar configuration deletion happens in the wrong order.
CSCvy34596	Cisco SD-WAN Manager upgrade is failing from 20.3.3.1 > 20.3.4
CSCvy35209	vEdge auth-order change not processed correctly
CSCvy35564	Cisco SD-WAN Manager Webhooks doesn't work without Email notifications explicitly enabled
CSCvy38478	Cisco SD-WAN Manager ver 19.2.4 crash, becomes unstable/unusable
CSCvy39849	Cisco SD-WAN Manager 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]

Bug ID	Description
CSCvy59469	OMP control connections of Cisco IOS XE Catalyst 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 SD-WAN Manager via GUI
CSCvy75420	Cisco SD-WAN Manager reports 'upgrade request failed in device' error after installing the software via ZTP
CSCvy75632	Cisco SD-WAN Validator lost static route on vpn 0 and vpn 512 running 19.4.2
CSCvy79095	configuration db Cisco SD-WAN Manager ROOT CA node is not updated
CSCvy82358	On-prem Cisco SD-WAN Manager cluster went into a bad state and template push started failing
CSCvy82623	Cisco SD-WAN Manager giving error on login
CSCvy83020	Cisco SD-WAN Manager UI is taking time to load first time
CSCvy88637	Cisco SD-WAN Manager email notification - supporting special character & (ampersand) in the email address
CSCvy89483	Cannot apply endpoint-tracker to Cisco IOS XE Catalyst SD-WAN device via Cisco SD-WAN Manager template in service VPN
CSCvy90229	Cisco SD-WAN Manager cluster management page should not show Sys IP in drop down of "Cisco SD-WAN Manager IP Address"
CSCvy90707	IPS signature update not consistent on routers after Cisco SD-WAN Manager upgrade to 20.3.3.1
CSCvy93261	Cisco SD-WAN Manager nodes in a cluster with Stats-db ran into full GC allocation failure
CSCvy93431	After upgraded the Cisco SD-WAN Manager from 20.3 to 20.6, UI is not getting loaded
CSCvs90123	Cisco SD-WAN Manager 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 certiticate upload
CSCvy88437	AWS VPN based: IPSEC tunnels from CGW C8kvs to TGW down on latest 20.6 build
CSCvy92487	Control connection to the Cisco SD-WAN Validator failing because of ERR_SER_NUM_NT_PRESENT on the Cisco SD-WAN Validator.
CSCvy57678	ISR4K :ompd memory incrementing for 17.3.2

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

Bugs for Cisco IOS XE Catalyst SD-WAN 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 Catalyst SD-WAN Release 17.3.3

Bug ID	Description
CSCvs31962	Perf testing: Large policy config push took 60 mins for 75 Cisco IOS XE Catalyst SD-WAN devices
CSCvu43317	Cisco Catalyst SD-WAN Validator connection Down Alarms or Events not appearing in Cisco SD-WAN Manager
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 SD-WAN Manager 20.1
CSCvv45021	PPP feature templates cannot modify IP MTU on Dialer interfacce
CSCvv48087	Task update issues, large customer setup with cluster
CSCvv52763	20.3 config-db upgrade script reports success even when it fails
CSCvv56750	Cisco SD-WAN Manager UI does not accept controller group more than 1

Bug ID	Description
CSCvv57951	Cisco IOS XE SD-WAN device: Option field in EIGRP template interface section is not working
CSCvv71357	Cisco SD-WAN Manager GUI dashboard does not show number of Cisco SD-WAN Manager up when single node in cluster is down
CSCvv79430	Cisco SDWAN Cisco SD-WAN Manager 20.3.1 unable to display IP address of user access in audit log
CSCvv86465	Cisco SD-WAN Manager: 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 SD-WAN Manager to 20.3 (watchdog)
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 SD-WAN Manager 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 SD-WAN Manager real time monitoring
CSCvw32352	SDWAN: clear control connection on vsmart can cause missing DNS resolved entries for IPv4 sessions
CSCvw37918	Confuguration-db upgrade allowed when not needed
CSCvw39302	'dns-server-list' error seen when pushing DNS server IP update from Cisco SD-WAN Manager
CSCvw41702	Cisco SD-WAN Manager dpi classification incorrect
CSCvw41883	Cisco SD-WAN Manager template doesn't allow interface as next hop for static route
CSCvw42971	Cisco SD-WAN Manager: Multiple DNS servers in DHCP template gives "Invalid IPv4 address"

Bug ID	Description
CSCvw44368	Translation profile/rules configured as part of a Voice policy not applied to dial-peers
CSCvw46769	CLI template push to Cisco Catalyst SD-WAN Validator 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 SD-WAN Manager Optional OSPF Configuration Removed when Device Template Updated
CSCvw52973	Cisco SD-WAN Manager UI is not coming up thread are stuck while updating factory default templates during startup
CSCvw53502	Logfiles flooded with message of tcgetattr: Input/output error
CSCvw56320	on-prem Cisco SD-WAN Manager 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
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 SD-WAN Manager 6 Node CLuster on Azure takes 2 mins to login to Cisco SD-WAN Manager UI.
CSCvw79756	Cisco IOS XE SD-WAN device policy change taking a long time, and timing out.
CSCvw79982	Cisco SD-WAN Manager 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 SD-WAN Manager 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

Bug ID	Description
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 SD-WAN Manager 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
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 SD-WAN Manager 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

Bug ID	Description
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)
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 Catalyst SD-WAN 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 Cisco Catalyst SD-WAN Validator connections
CSCvv41954	Customer couldn't login to 19.2.3 Cisco SD-WAN Manager 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

Bug ID	Description
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 SD-WAN Manager node in Cisco SD-WAN Manager cluster
CSCvw62341	Cisco SD-WAN Manager Dashboard - Alarm time zone is tagging with incorrect time zone
CSCvw66441	Cisco SD-WAN Manager 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 SD-WAN Manager
CSCvw73392	Frequent Cisco SD-WAN Manager UI timeout and stuck in Please continue waiting state.
CSCvw77794	"Invalid IPv4 address" is shown when inputting IPV6 DNS field
CSCvw83988	sdwan - Cisco SD-WAN Manager - ip helper not more than 1 is possible with Feature and Device Templates
CSCvw85706	Cisco SD-WAN Manager: UI is incorrectly showing the current version for Cisco SD-WAN Manager and vSmarts.
CSCvw91545	We are not able to change Controller Certificate Authorization options in Cisco SD-WAN Manager GUI
CSCvw91647	Issues with template created by API call
CSCvw91984	ACI APIC to Cisco SD-WAN Manager integration issue
CSCvw92189	Cisco SD-WAN Manager 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

Bug ID	Description
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 SD-WAN Manager GUI timeout in 180 seconds
CSCvx02002	Cisco SD-WAN Manager did not validate if the template value of an interface name was correct.
CSCvx03552	Configurations allows for multiple primary DNS servers
CSCvx04246	Cisco SD-WAN Manager -- Template rollback when migrating EIGRP interfaces & VRFs -- 17.3
CSCvx05353	"request nms all status" command returning Python exception if containter-mgr svc was stopped
CSCvx08817	DHCP excluded-address command is not being pushed via Cisco SD-WAN Manager 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 SD-WAN Manager 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
CSCvx19853	Cisco SD-WAN Manager CLI template push failing due to controller transaction ID error
CSCvx19889	Creation of Cisco SD-WAN Manager DR Cluster Failed, GUI showing duplicate entry for DR Cisco SD-WAN Manager
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 SD-WAN Manager cluster does not show Graphs for less than 7 Days
CSCvx26988	Cisco SD-WAN Manager App Route Visualization - Citrix Flows are missed in GUI

Bug ID	Description
CSCvx28675	UTD signatures update stopped working suddenly
CSCvx29421	"Server Error, Details: Unable to get pcap session" is printed in the Cisco SD-WAN Manager GUI
CSCvx29967	Fail to upload images to software repository post Cisco SD-WAN Manager upgrade to 19.2.4
CSCvx34074	/dataservice/device/omp/routes/advertised?deviceId reply is empty
CSCvx34991	Cisco SD-WAN Manager - TACACS requests are sourced from old interface IP after IP changed
CSCvx36896	Cisco SD-WAN Manager is unable to push both interface and ip as a next-hop
CSCvx37025	Cisco SD-WAN Manager: Control connection up with Edge devices however, do not show up on Dashboard
CSCvx37092	Cisco SD-WAN Manager 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/Cisco IOS XE Catalyst SD-WAN device:Add errmsg() infra-structure to OMP Agent
CSCvv02594	Cisco IOS XE Catalyst SD-WAN device can not apply speed, duplex and negotiation in one Cisco SD-WAN Manager transaction
CSCvv05682	GD box crashed @ stile code with 17.3.1 FC1 image
CSCvv48885	Can't update local-address in a crypto keyring
CSCvw02548	The tunnel interface remains up even when the physical interface not have IP address
CSCvw30618	Not all OMP routes getting installed
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	Cisco IOS XE Catalyst SD-WAN device crashes while running web traffic testing with security features enabled

Bug ID	Description
CSCvw89001	LTE interface is not getting IP address after upgrading teh router.
CSCvw90699	The BFD sessions between Cisco IOS XE Catalyst SD-WAN device 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	Cisco IOS XE Catalyst SD-WAN device: TenGigabitEthernet interface in admin shut after reload
CSCvx09453	It is possible to apply changes through TCL in Cisco IOS XE Catalyst SD-WAN device device in Cisco SD-WAN Manager Mode
CSCvx15750	Cisco Catalyst SD-WAN:Cisco IOS XE Catalyst SD-WAN device 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	Cisco IOS XE Catalyst SD-WAN device 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 Cisco IOS XE Catalyst SD-WAN device 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	Cisco IOS XE Catalyst SD-WAN device unexpected reboot - Stuck CPP Thread
CSCvx28872	Switchport Feature Template is not working Properly - Missing VLANs on VLAN-DATA BASE
CSCvx28956	Cisco IOS XE Catalyst SD-WAN device crash on upgrade from 16.12.4 to 17.3.2
CSCvx35533	user locked out while upgrading Cisco IOS XE Catalyst SD-WAN device 16.09.06 to 17.3.2
CSCvx36146	DCHP offer frame getting dropped on Cisco IOS XE Catalyst SD-WAN device ISR4431 due to Policy
CSCvx36763	Zone Based Firewall on Cisco IOS XE Catalyst SD-WAN device router dropping web traffic with the reason Zone-pair without policy
CSCvx36940	Loopback flap error after upgrading the Cisco IOS XE Catalyst SD-WAN device's to 17.3.2

Bug ID	Description
CSCvx39761	Cisco IOS XE Catalyst SD-WAN device 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 seperate 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 SD-WAN Manager running 264 devices
CSCvw72269	Cisco SD-WAN Manager GUI is not accessible: upstream connect error
CSCvw62577	Reassign "oom_score_adj" Values for tracker

Bugs for Cisco IOS XE Catalyst SD-WAN 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 Catalyst SD-WAN 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 - Continous %SCOOBY-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" faills 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	[Cisco IOS XE Catalyst SD-WAN device-DiaTracker]configuration not getting updated through device template ,
CSCvu49754	Deleting a Voice Port on CUCM Shuts Down Additional Voice Ports on MGCP Gateway
CSCvu53184	Cisco IOS XE Catalyst SD-WAN device - CLI should ask for confirmation of request software reset
CSCvu63628	17.3: Cisco IOS XE Catalyst SD-WAN device -show sdwan omp vpn <> 0.0.0.0/0 detail broken on Cisco IOS XE Catalyst SD-WAN device
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 Cisco IOS XE Catalyst SD-WAN device ISR4451
CSCvu75604	17.3: EFT Customer seeing an issue with show sdwan app-route stats command

Bug ID	Description
CSCvu79087	ASR1K:16.12.4 => 17.3.1: sessions classified based on CTS SGT/DGT are not synced to the standby
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-Cisco IOS XE Catalyst SD-WAN device 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

Bug ID	Description
CSCvv19063	ASR1K, C9800 Commit config clean up for cstate and pstate to 17.4, 17.3.2, 17.2.2: backout idle=poll
CSCvv20380	Removing and Adding Bulk ACL leads to Tracebacks and Error-Objects
CSCvv21398	sdwan multicast Cisco IOS XE Catalyst SD-WAN device rpf failure even with unicast route present in rib and omp
CSCvv25529	16.12.4 ucmk9 Cisco IOS XE Catalyst SD-WAN device 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_ucode_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 Cisco SD-WAN Manager 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	Cisco IOS XE Catalyst SD-WAN device 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	Cisco IOS XE Catalyst SD-WAN device 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

Bug ID	Description
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.
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 Catalyst SD-WAN Release 17.3.2

Bug ID	Description
CSCvs29562	ISRv-Cisco IOS XE Catalyst SD-WAN device 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: harddisk usage is always zero in "show platform resource" for consolidated platforms
CSCvu06483	Data consistancy 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

Bug ID	Description
CSCvv17346	unexpected reload due to Crypto IKEv2 process
CSCvv29416	CLI template push for banner login <> configuration fails on Cisco IOS XE Catalyst SD-WAN device
CSCvv40206	Router may crash under ZBF configuration
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	Cisco IOS XE Catalyst SD-WAN device 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 Cisco IOS XE Catalyst SD-WAN device 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 - Cisco IOS XE Catalyst SD-WAN device 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

Bug ID	Description
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	Cisco IOS XE Catalyst SD-WAN device sees cpp-mcplo-ucode crash
CSCvv99096	CoR-SaaS shows 100% loss for dialer interface
CSCvw01038	[Cisco IOS XE Catalyst SD-WAN device/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-locall 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/Cisco IOS XE Catalyst SD-WAN device - 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	Cisco IOS XE Catalyst SD-WAN device: fman-fp core / watch dog failure on 17.2.1r in do_lookup_x

Bugs for Cisco IOS XE Catalyst SD-WAN 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 Catalyst SD-WAN 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	Cisco SD-WAN Manager is not exhibiting the correct hostname of Cisco IOS XE Catalyst SD-WAN device
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 Cisco SD-WAN Manager 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	Cisco IOS XE Catalyst SD-WAN device_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 IpsecOutput drop for Cisco IOS XE Catalyst SD-WAN device even though ip packet size is less than 1442.
CSCvs51630	Cisco IOS XE Catalyst SD-WAN device: '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

Bug ID	Description
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
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 orignial 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	Cisco IOS XE Catalyst SD-WAN device reboot with UNIX-EXT-SIGNAL: Segmentation fault(11), Process = iosp_vty_100001_dmi_nesd
CSCvs90207	On Cisco IOS XE Catalyst SD-WAN device all the BFD session flap if there is a control connection flap to Cisco SD-WAN Manager
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

Bug ID	Description
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 Cisco SD-WAN Manager
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 Cisco SD-WAN Manager is not in sync when manual software reset is done
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	Cisco IOS XE Catalyst SD-WAN device 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

Bug ID	Description
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	Cisco IOS XE Catalyst SD-WAN device 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	Cisco IOS XE Catalyst SD-WAN device crashes after the push of a template for Umbrella
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 Cisco IOS XE Catalyst SD-WAN device 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 Catalyst SD-WAN Release 17.3.1a

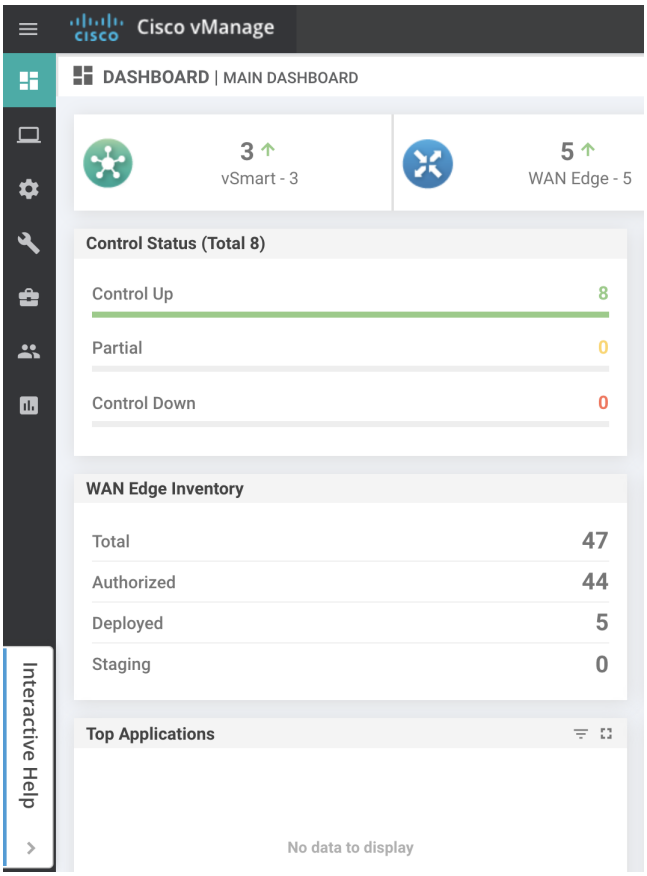
Bug ID	Description
CSCvt32383	ASR1000 / RP2 upgrade fails from 16.9.4 to the 16.9.5
CSCvt50136	ASR1k - all Platform : Observing IpFragErr for EMIX traffic with basic IPSEC config
CSCvt97642	MIP100 - Continous %SCOOBY-5-SERIAL_BRIDGE_BLOCK_EVENT flooding on the console
CSCvu59952	ISR4461: Control Connections 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 Cisco IOS XE Catalyst SD-WAN device ISR4451
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 Cisco SD-WAN Manager/Device Connection Failure
CSCvv14438	Azure csr-Cisco IOS XE Catalyst SD-WAN device 17.3.1-throttle (7/16) fresh-deploy crash once@qfp-ucode-csr when shut/no shut Gi1
CSCvv21398	sdwan multicast Cisco IOS XE Catalyst SD-WAN device 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 SD-WAN Manager UI

Interactive Help in Cisco SD-WAN Manager

To access the list of guided workflows for this release, from Cisco SD-WAN Manager, 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 SD-WAN Manager



This release provides guided workflows for the following procedures:

Table 3: List of Workflows Using Cisco SD-WAN Manager 20.3.1

Workflow	Description
Configure Controllers and Devices	
Configure Cisco Catalyst SD-WAN Validator	Configure the Cisco Catalyst SD-WAN Validator and add it to the overlay network.
Configure Cisco Catalyst SD-WAN Controller	Configure a Cisco Catalyst SD-WAN Controller to control data traffic flow throughout the network.
Configure Cisco SD-WAN Manager Instance	Configure a Cisco SD-WAN Manager instance by creating a device configuration template and adding it to the overlay network.

Workflow	Description
Configure Cisco Catalyst SD-WAN Devices	Configure Cisco IOS XE Catalyst SD-WAN devices and Cisco vEdge devices by creating configuration templates.
Manage Devices in Overlay Network	
Add Devices to the Overlay Network	Add Cisco Catalyst SD-WAN devices either by using authorized serial numbers or from Cisco Smart account.
Decommission Virtual Devices	Decommission a Cisco IOS XE Catalyst SD-WAN device or Cisco vEdge device to remove the device serial number.
Remove Devices from the Overlay Network	Remove Cisco Catalyst SD-WAN devices to clear an old device configuration from the Cisco SD-WAN Manager server.
Change Device Values	Change Cisco Catalyst SD-WAN device configuration by populating the variable values for the device.
Troubleshoot Device Issues	Determine and fix common Cisco Catalyst SD-WAN device connectivity issues.
Upgrade Devices and Controllers	Install and activate an upgraded software for Cisco Catalyst SD-WAN control components and Cisco Catalyst SD-WAN devices. You cannot use this workflow for: • Cisco SD-WAN controll components 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

Cisco Catalyst SD-WAN Control Components Compatibility Matrix and Server Recommendations

For compatibility information and server recommendations, see Cisco Catalyst SD-WAN Control Components Compatibility Matrix and Server Recommendations.

Supported Devices

For device compatibility information, see Cisco Catalyst 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

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