Release Notes for Cisco vEdge Devices and Cisco Catalyst SD-WAN Control Components, Cisco SD-WAN Release 20.3.x and Cisco Catalyst SD-WAN Control Components Release 20.3.x

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Release Notes for Cisco vEdge Device, Cisco SD-WAN Release 20.3.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 SD-WAN Release 20.3.x, which provides Cisco Catalyst 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 vEdge devices.

For release information about Cisco IOS XE Catalyst SD-WAN devices, refer to Release Notes for Cisco IOS XE Catalyst SD-WAN Devices, Cisco IOS XE Release Amsterdam 17.3.x.

What's New for Cisco SD-WAN Release 20.3.x

This section applies to Cisco vEdge 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 SD-WAN Release 20.3.1 for vEdge Routers

Feature	Description
User Documentation and Interactive Help in Cisco vManage	

Feature	Description
User Documentation	Starting from this release, we've restructured the listing page of our configuration guides to display category-wise book and chapter contents. This new page lets you switch between releases using the **View Documents by Release** drop-down list.
Interactive Help in Cisco vManage	This feature helps you navigate Cisco vManage and complete vManage procedures using guided workflows. The Interactive Help points to elements within the Cisco 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	
Cisco vManage Cluster Upgrade	This feature outlines the upgrade procedure for Cisco vManage servers in a cluster to Cisco vManage Release 20.3.1.
On-Site Bootstrap Process for Cisco vEdge 5000 using SHA2 Enterprise Certificates	By default, a Cisco vEdge 5000 device uses an SHA1 certificate for authentication with controllers in the overlay network. With this feature, you can authenticate the device using an OTP and a Public Key, and install an SHA2 enterprise certificate on the device. By authenticating the device using an OTP and a Public Key and installing an SHA2 enterprise certificate, you can bypass SHA1 certificate authentication and secure the device against SHA1 vulnerabilities.
Systems and Interfaces	
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.
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.
Support for Multiple VRRP Groups on the Same LAN Interface or Sub-interface	This feature increases support from one VRRP group per interface to five VRRP groups per interface. Multiple VRRP groups are useful for providing redundancy and for load balancing.
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.
Routing	
Route Leaking Between Transport VPN and Service VPNs	This feature enables you to leak routes bidirectionally between the transport VPN 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.
Policies	

Feature	Description
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	
Self Zone Policy for Zone-Based Firewalls	This feature allows you to define firewall policies for incoming and outgoing traffic between a self zone of an edge router and another zone. When a self zone is configured with another zone, the traffic in this zone pair is filtered as per the applied firewall policy.
Extended DNS (EDNS) and Local Domain Bypass Support with Cisco Umbrella Integration	This feature enables cloud-based security service on Cisco vEdge devices by inspecting the DNS query. Once the DNS query is inspected, action is taken on it based on whether the query is for a local domain or an external domain.
Cloud OnRamp	
New Configuration Workflow for Cloud onRamp for SaaS for Cisco vEdge devices	This feature updates the existing configuration workflow for Cloud onRamp for SaaS for Cisco vEdge devices.
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.
TAC Access	

Feature	Description
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.
TCP Optimization	
TCP Optimization Support for Cisco ISR1100 6G	Added TCP Optimization support for the Cisco ISR1100 6G platform.

Important Notes, Known Behavior, and Workaround

- Cisco vManage Release 20.3.1 implements a hardened security posture to comply with FedRamp guidelines. As a result, your Cisco SD-WAN Analytics login credentials that are stored locally get erased on upgrading the software, and you cannot access the Cisco SD-WAN Analytics service directly through Cisco SD-WAN Manager. In this case, log in to Cisco SD-WAN Analytics using this URL: https://analytics.viptela.com. If you can't find your Cisco SD-WAN Analytics login credentials, open a case with Cisco TAC support.
- For Cisco Catalyst SD-WAN Control Components Releases 20.3.1, 20.3.2, and 20.3.2.1, you must run the messaging server on all the active instances of the Cisco SD-WAN Manager cluster when deploying the Cisco SD-WAN Manager cluster. See the High Availability Configuration Guide for vEdge Routers for more information.
- Starting from Cisco SD-WAN Release 20.3.1 and later releases, the Cisco Cloud Infrastructure monitoring service is changed to a push based model, for cloud-hosted controllers provisioned by Cisco, for cloud subscription customers. As part of this model, Cisco SD-WAN Manager authenticates with the monitoring system to send the health status data. This model no longer requires the 'viptelatac' user to log in to Cisco SD-WAN Manager and collect the health status data. For this new model to work in Cisco SD-WAN Release 20.3.1 and later releases, you must provide consent in Cisco SD-WAN Manager settings and configure a One Time Password (OTP).

  For more information about Cisco CloudOps monitoring service, see Monitor the Cisco Catalyst SD-WAN Cloud-Hosted Controllers.
- MD5 authentication protocol is deprecated for Cisco Catalyst SD-WAN Control Components Release 20.3.2 and later releases.
- In Cisco vManage Release 20.3.1, when you create a CLI template through REST API, add this input parameter: `"cliType":"device"` to the REST API. If this input parameter is not added, the CLI template fails to attach to the device.
- If your Cisco SD-WAN Manager is running Cisco vManage Release 20.6.1 and your Cisco vEdge devices are running Cisco SD-WAN Release 20.3.x, a defect CSCwc64459 prevents Cisco vManage from pushing the device templates as expected.

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 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 SD-WAN Release 20.3.8

Open Bugs for Cisco SD-WAN Release 20.3.8

Identifier	Headline
CSCwe21563	Cisco vEdge device cannot resolve Cisco SD-WAN Validator on the loopback interface
CSCwh61634	Cisco Webex Audio Not working via TLOC-EXT
CSCwf74787	Cisco vEdge device is crashing due to FP Core dying
CSCwf49735	The tracker is not working after upgrade to 20.3.5

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.7.2

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.7.2

Identifier	Headline
CSCwf34096	Cisco vEdge 5000 device inbuilt certificate expiring on 12th November 2023

Bugs for Cisco SD-WAN Release 20.3.7.2

Resolved Bugs for Cisco SD-WAN Release 20.3.7.2

Identifier	Headline
CSCwf34096	Cisco vEdge 5000 device inbuilt certificate expiring on 12th November 2023

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.7.1

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.7.1

Identifier	Headline
CSCwf28118	vEdge: Certificate issue on Cisco vEdge devices

Bugs for Cisco SD-WAN Release 20.3.7.1

Resolved Bugs for Cisco SD-WAN Release 20.3.7.1

Identifier	Headline
CSCwf28118	vEdge: Certificate issue on Cisco vEdge devices

Bugs for Cisco SD-WAN Release 20.3.7

Open Bugs for Cisco SD-WAN Release 20.3.7

Identifier	Headline
CSCwd86884	Cisco vEdge Devices 1000 - Silent Reboot - with ZBFW configured.
CSCwc67625	The OU field is deprecated from CA/B Forum Certificate Authorities.
CSCwe51195	Cisco SD-WAN vDaemon should not remove unvalidated certificates from /usr/share/viptela/vedge_certs
CSCwe21563	Cisco vEdge devices cannot resolve vBond on the loopback interface
CSCwe51222	On root-ca bundle install control connection should flap if existing certificate is not verified

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 SD-WAN Release 20.3.6

Resolved Bugs for Cisco SD-WAN Release 20.3.6

Identifier	Headline
CSCvy07589	The cflowd flows are being shown in “show app logs flows”
CSCwa82541	Cisco vEdge Device: ECMP for DP based DIA is not maintained if AAR policy applied
CSCvy66289	Cisco vEdge Device not initiating arp request after upgrading

Open Bugs for Cisco SD-WAN Release 20.3.6

Identifier	Headline
CSCwc69219	Cisco vEdge Device/ACL is accepting traffic when default action is set to drop.
CSCwc64459	20.3.x Cisco vEdge Device SNMP template push failing from 20.6 vManage after 1st successful push
CSCwc54429	20.3.4.0.11 devices showing Sy CPU which is not showing in Top processes or on Cisco vManage GUI
CSCvw54152	Cisco vEdge Device 5k-LLQ policer rate on interface 10ge0/0 change after reboot on version 20.1.932
CSCwc55279	Cisco vEdge Device - ISR1100 4G-LTE - Cellular interface last-resort-circuit
CSCwc04078	Cisco vEdge Device 1K silent reboot Warm Reset(CHIP RESET)
CSCvz20061	Cisco vEdge Device: OSPF route isn't removed from routing table.

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
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

Identifier	Headline
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 SD-WAN Release 20.3.5

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 SD-WAN Release 20.3.5

Bug ID	Description
CSCvw55486	Low-Bandwidth-Link does not work as expected on ISR-1100 -4G/6G
CSCvx79335	Cisco SD-WAN Software Information Disclosure Vulnerability
CSCvy02586	Additional counter to capture the mismatch between control and data plane hash table ZBF records.
CSCvy25448	Viptela device crashed after run admin-tech - Software initiated - Daemon 'fpmd' failed
CSCvy27321	vedge interface tracker reporting down status in vdebug constantly while on the CLI its up.
CSCvy46919	vEdge: Out of Order IKE Negotiation causes IKE to get stuck
CSCvy52061	vedges redistributing static nat routes into OMP which are not set to be advertised
CSCvy57380	Endpoint Tracker stays down when ip address changed from dhcp to static
CSCvy83632	DNS resolution fails from VPN 511 - request download vpn 511 <URL>
CSCvy87103	On 20.3.2 code, vEdge when turned on, interface stays down/ down with Cisco GLC-T SFP
CSCvz06515	vedge 1k running 20.3.3 crashes intermittenetly when configured for nat
CSCvz24768	Route-leak and ZBFW not picking correct VPN
CSCvz31126	Umbrella re-direction does not work for DNS packets arriving from LAN via an IPSEC interface
CSCvz56924	vEdge: IPSec IKE: DPD timeout causes IKE to get stuck
CSCvz60359	FP core files are not automatically decoded
CSCvz84293	BGP Route Aggregation causing delay in bringing up OMP after failover

Bug ID	Description
CSCvz87934	vEdge marking the routes as invalid in OMP when the control policy is changed.
CSCvy81379	Implicit ACL (Deny) + Explicit ACL (Default Allow) --> Allow
CSCvz86967	vEdge DST Root CA X3 Expiration causing umbrella integration to fail
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 vManage SAML logout
CSCvx97579	Cisco vManage 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 vManage GUI down 20.3.3 due to Full GC (Allocation Failure)
CSCvy56278	vMange crashed due to kernal panic [20.3.3.1.2]
CSCvy59469	OMP control connections of Cisco IOS XE SD-WAN device/vEdge devices goes down on decommissioning virtual vEdge
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	omp route propagation delays due to constant marker resets on TLOC flap
CSCvz02284	Cisco vManage disaster recovery not replicating the statistics database
CSCvz16093	Cisco vManage CSR generation failed
CSCvz28451	"request nms update-internal-ip new-ip" does not work on Cisco vManage 20.3.4
CSCvz43823	Cisco vManage is not able to discover VPCs for Multi-cloud when >14 AWS accounts provisioned
CSCvz69856	Cisco vManage - 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 vManage
CSCvx83494	Cisco vManage 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"
CSCvy89784	BFD sessions goes down after interface flaps, and after configuring nat map-type

Open Bugs for Cisco SD-WAN Release 20.3.5

Bug ID	Description
CSCvw54152	Vedge 5k-LLQ policer rate on interface 10ge0/0 change after reboot on version 20.1.932
CSCvz37684	Not possible to ping VRRP Virtual IP
CSCvz43474	OMPD crash seen on vEdge2k doing an assert while doing best path calculation operation.
CSCvz56337	vEdge-2000 version 20.3.2 crashed due to (reason: Daemon 'bgpd' down in vpn 7)
CSCwa15656	Multiple Vedge's lost certificates and lost control connections.
CSCwa24992	ZBFW zone-pair (service to service) not working as expected.
CSCvs90123	Cisco vManage became unusable after CPU spiked to 100% - no were operations performed during hike
CSCvv64821	Cisco vManage Site Health shows wrong number of sites
CSCvx98106	Cisco vManage 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 vManage 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 vManage: 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 vManage 20.3.5: Cisco IOS XE SD-WAN device upgrade fails with java.lang.Exception
CSCvz66256	Filtering the data based on local tloc is returning no data in Cisco vManage 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 vManage via GUI
CSCvy07589	cflowd flows are being shown in “show app logs flows”

Bugs for Cisco vManage Release 20.3.4.2

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 vManage Release 20.3.4.2

Bug ID	Description
CSCwa54712	Evaluation of Cisco SD-WAN for Log4j 2.x DoS vulnerability fixed in 2.17

Bugs for Cisco vManage Release 20.3.4.1

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 vManage Release 20.3.4.1

Bug ID	Description
CSCwa47745	Evaluation of Cisco vManage for Log4j RCE (Log4Shell) vulnerability

Bugs for Cisco SD-WAN Release 20.3.4

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 SD-WAN Release 20.3.4

Bug ID	Description
CSCvv76467	Vedge-5000:Auto IP feature not working on vedge5k
CSCvv97687	Performance degradation(6%-10%) observed on vEDGE-1k and 2k with 20.3.1 CCO on all the profiles.
CSCvw13663	Vedge_cloud_19.2.921 - FP misprogramming
CSCvw28254	High CPU because of process vconfd_script_vmanage_list_stats.sh
CSCvw42635	vedge vrrp stuck in init state with the sub-interface's second address
CSCvw47885	unexpected behavior for nat-tracker on vedge100M
CSCvw57492	vrrp virtual IP becomes unreachable to all external devices.
CSCvw58999	vEdge-100m Cellular interface losing its ip // Different ISPs
CSCvw91847	In vEdge5K the default route in RIB table is not getting programmed in FIB table properly
CSCvw94697	VEDGE-1000-AC-K9 change data prefix list name crash after 4-5 min
CSCvx00210	vEdge 5k crashed with reason "Software initiated - FP core watchdog fail"

Bug ID	Description
CSCvx29790	vEdge suddenly stops to send packets via PPP interface
CSCvx56839	Vedges are crashing once the admin-tech is executed from GUI or CLI.
CSCvx57679	vedge crash after route leak config
CSCvx62654	FTMD crash being observed on a vEdge 5000 with FEC ADAPTIVE configuration enabled.
CSCvx79606	'Flow addition failures' observed with ZBFW on vEdge after heavy churn
CSCvx95288	Layer 7 tracker goes down with ZBFW inspect rule for self-zone
CSCvx96085	policyAccessListAssociationsAccessPolicyInterfaceListTable Not ordered correctly
CSCvy15360	ISR1100-6G keep crashing because FP core watchdog fail
CSCvy19715	ISR1100-4GLTE devices shows half duplex in 19.2.3 and 20.3.x releases
CSCvy28664	vedge 5k keep crashing because FP core watchdog fail and ysmgr got signal 9.
CSCvy36798	Not able to see the correct autoneg, speed and duplex settings from the Viptela CLI
CSCvy54443	Self generated return packet getting drop due to firewall
CSCvy57394	vEdge Cloud / 20.3.3 / Crash on bfdmgr_sla_class_next
CSCvy65545	vEdge: Show command to view PoE status is broken after upgrading to 20.3.3

Open Bugs for Cisco SD-WAN Release 20.3.4

Bug ID	Description
CSCvr89902	vEdge/vBond: default route is not installed in RIB even ARP is learnt and default GW is reachable
CSCvs70534	vEdge(x86) IPSec+QoS Performance Optimization
CSCvu48133	show ip route with filter isn't working with new confd version
CSCvw54152	Vedge 5k-LLQ policer rate on interface 10ge0/0 change after reboot on version 20.1.932
CSCvx50343	Routes redistributed to the OSPF/BGP that shouldn't be filtered by the routing-policy are filtered
CSCvx86427	vEdge IPSec/Ikev2 tunnel not getting re-initiated after being torn down due to a DELETE event
CSCvy03463	FTMD crash seen after customer tried to add a second tracker to an interface
CSCvy14512	Shaping-rate command on ISR1100-6G not taking an effect
CSCvy20256	Flows moving between circuits midflow

Bug ID	Description
CSCvy20512	vEdge Template push failure: "Unable to send line feed after string <nc:unlock>"
CSCvy23912	vEdge VPN labels mis-allocated after upgrading from 18.x to 19.x
CSCvy25448	Viptela device crashed after run admin-tech - Software initiated - Daemon 'fpmd' failed
CSCvy27321	vedge interface tracker reporting down status in vdebug constantly while on the CLI its up.
CSCvy29984	vEdge1000 Silent Reload
CSCvy36186	Cisco vManage template does not push correct dead-peer-detection interval value to vEdge
CSCvy37241	Retrieving config from vEdge2K via Cisco vManage takes minutes to return complete configuration
CSCvy44469	DPI not working properly
CSCvy46919	vEdge: IKE IPSec sessions: discrepancy between StrongSwan and FTM Module Session Status
CSCvy48348	Cisco vManage upgrade causes certificates to become invalid on vEdge devices
CSCvy50990	In ISR1100-4G QOS traffic goes into default queue at higher speed.
CSCvy52061	vedges redistributing static nat routes into OMP which are not set to be advertised
CSCvy54245	IPsec flapping - "iptables-dropped"
CSCvy56075	FEC sending more packets than expected
CSCvy57380	Endpoint Tracker does not see the proper latency values
CSCvy60794	vEdge 1000 rebooted because of Daemon zebra
CSCvy63909	Multicast application stops working after vedge upgrade from 19.2.3 to 20.3.936
CSCvy66289	vEdge not initiating arp request after upgrading
CSCvy73400	"show ntp" command returns error "Line count error: expected 3 or more, got 1"
CSCvy77103	vEdge still advertises color if link is down but interface is up
CSCvy79566	NatPool + local-tloc doesn't ' work together in data-policy
CSCvy82151	vEdge sends getResponse including undefined values.
CSCvy83632	DNS resolution fails from VPN 511 - request download vpn 511 <URL>
CSCvy87103	On 20.3.2 code, vEdge when turned on, interface stays down/ down with Cisco GLC-T SFP
CSCvs08693	VPN label is changing upon Edge reboot

Bug ID	Description
CSCvu73826	ND Failed with device template: Failed to edite device template if add-on CLI empty

Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.4

Resolved Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.4

Bug ID	Description
CSCvv52442	Cisco vSmart Upgrade From 20.1.12 to 20.3.1 Failing With Error "Failed to install: "
CSCvw14883	Incorrect mapping for device specific variables from interface shaping rate
CSCvw16238	Incorrect tag for omp routes in Real Time view
CSCvw20597	Variables missing in Cisco vManage during template push.
CSCvw28645	OIB: without change any ND global parameters, Cisco vManage automatically push template to all sites again
CSCvw37603	ND template stay in DB when no branch associated to and cause image delete failure
CSCvw53680	Limit of 30 notifications / min restriction for webhook alarm to be removed from UI
CSCvw62325	Not able to copy a feature template if the description or name contains "|"
CSCvw66441	Cisco vManage GUI not accessible due to too many open file descriptors.
CSCvw69181	OSPF alarm down seen on Cisco vManage, 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 vBond upgrade from 20.3.1 to 20.3.2 fails
CSCvw83988	Cisco SD-WAN - Cisco vManage - ip helper not more than 1 is possible with Feature and Device Templates
CSCvw91545	We are not able to change Controller Certificate Authorization options in Cisco vManage GUI
CSCvw96264	UI showing console error after clicking on active/completed task as fails to show the details
CSCvw97278	20.4 policy name restrictions may break existing templates on upgrade
CSCvx00144	SSH via Cisco vManage GUI timeout in 180 seconds
CSCvx07049	Cisco vManage not displaying tunnel state correctly
CSCvx07210	Cisco vManage showing old device hostname
CSCvx22960	Not all routes getting pushed to device

Bug ID	Description
CSCvx23886	CLI template does not push snmp-server community config
CSCvx27128	DPD with default values on feature template is not pushed to Cisco IOS XE SD-WAN device
CSCvx33184	Service proxy does not restart after ui certiticate upload
CSCvx35130	Cisco vBond software upgrade fails when selecting activate/reboot while upgrading
CSCvx37901	nms_bringup file has ^M in each line after service restart as part of DR
CSCvx44643	UC - unable to make modification to the translation rule once created from Cisco vManage UI
CSCvx52154	Could not load host key: /var/run/ssh/ssh_host_ed25519_key
CSCvx52352	CLI template does not push logging buffered community config
CSCvx52789	Cisco IOS XE SD-WAN device- template failure - An element value is not correct : inspect.
CSCvx55749	Cisco vManage logs are not pruned
CSCvx57151	Update button stops working after adding DHCP option
CSCvx57718	Remove "show internal omp rib vroute" cli from admin tech
CSCvx59998	Cisco IOS XE SD-WAN device Upgrade to 17.3.3 failing due to "Failed to check active partition information" error message
CSCvx64613	Issues detaching template when device is in CSR generated state
CSCvx66954	Cisco vManage manage-user function is not working properly
CSCvx68246	Changing Config-DB ID/Password from default to non-default on a cluster of more than 3 members
CSCvx72390	ZTP software version enforcement does not respect software install timeout
CSCvx81621	Cisco vManage dashboard doesn't show device status even when control is up/up
CSCvx83654	invalid value for: prefix-entry Error when push advertise OMP prefix under vpn
CSCvx85487	Configuration DB upgrade in cluster failed in 20.3.3 code
CSCvx86601	The CSR properties in Cisco vManage config DB does not match with the certificate settings on Cisco vManage UI.
CSCvx86804	c8500 / 17.3.2 / 17.4.1a / Cisco vManage is not pushing auto negotiation for 10Gig Interfaces on Cisco IOS XE SD-WAN device
CSCvx87163	X-Forwarded-For header is passed through to local auth, leading to session creation errors
CSCvx94730	20.3.3 alarms not working for BFD/Control issues
CSCvy01567	Device template policy dissapears from UI after selecting edit device template

Bug ID	Description
CSCvy12257	Cisco vManage becomes unresponsive after a high amount of email notifications getting generated.
CSCvy12485	Mismatch self-signed root certs between primary and secondary clusters
CSCvy18932	Cisco vManage is not able to discover VPCs for Multi-cloud when >7 AWS accounts provisioned
CSCvy27218	Socket connect leak when dr is enabled
CSCvy42621	Unable to generate ciscotacro/rw token due to sessions being full
CSCvy42629	API sessions not getting cleared out when "Max Sessions Per User" is set
CSCvy60928	Continuous logs of "Could not load host key: /var/run/ssh/ssh_host_ed25519_key"
CSCvy65210	All stat-db settings except DPI is not available after DR registration
CSCvu78406	Cisco vSmart crash because of ompd process
CSCvw59643	Cisco Catalyst SD-WAN Manager Information Disclosure Vulnerability

Open Bugs for Cisco Catalyst SD-WAN Control Components Release 20.3.4

CSCvv64821	Cisco vManage Site Health shows wrong number of sites
CSCvw71474	Attempt to create cluster fails when adding 2nd member to standalone Cisco vManage
CSCvw73392	Frequent Cisco vManage UI timeout and stuck in Please continue waiting state.
CSCvx46554	Cisco vManage reverting API changes after 5 minutes
CSCvx93652	Push Cisco vEdge list fails to Cisco vSmart with application error.
CSCvy01378	Device Specific field is not usable
CSCvy07698	20.4 Getting Wrong Control Site Down Alarm alarms
CSCvy10009	IR1101 template push error: bad-cli - No interface
CSCvy14627	Activating changes in Security Policy that is attached to the Cisco vEdge will fail and lock the database
CSCvy15370	Cisco vManage API running too frequently under Rediscover Network resulting in Page Loading too often
CSCvy20641	SCP of WAN edge list to Cisco vBonds from Cisco vManage fails when TACACS is enabled on vBond.
CSCvy22394	Cisco vAnalytics slowness in response to a query
CSCvy22416	Security policies applied to incorrect interface in cluster mode, iptables

CSCvy29733	Attach to the device fails, when CLI template is created via REST API in Cisco vManage
CSCvy31058	zScalar configuration deletion happens in the wrong order.
CSCvy34596	Cisco vManage upgrade is failing from 20.3.3.1 > 20.3.4
CSCvy35209	Cisco vEdge auth-order change not processed correctly
CSCvy35564	Cisco vManage Webhooks doesn't work without Email notifications explicitly enabled
CSCvy38478	Cisco vManage ver 19.2.4 crash, becomes unstable/unusable
CSCvy39849	Cisco vManage pushes invalid service route command
CSCvy53930	Failed to create deviceactionstatusnode table entry in DB for device: Validation
CSCvy56278	Cisco vMange crashed due to kernal panic [20.3.3.1.2]
CSCvy59469	OMP control connections of Cisco IOS XE SD-WAN device/vEdge devices goes down on decommissioning virtual vEdge
CSCvy69307	Token fails to get generated when trying to login to Cisco hosted Cisco vManage via GUI
CSCvy75420	Cisco vManage reports 'upgrade request failed in device' error after installing the software via ZTP
CSCvy75632	Cisco vBond lost static route on vpn 0 and vpn 512 running 19.4.2
CSCvy79095	Configuration db VMANAGE ROOT CA node is not updated
CSCvy82358	On-prem Cisco vManage cluster went into a bad state and template push started failing
CSCvy82623	Cisco vManage giving error on login
CSCvy83020	Cisco vManage UI is taking time to load first time
CSCvy88637	Cisco vManage email notification - supporting special character & (ampersand) in the email address
CSCvy89483	Cannot apply endpoint-tracker to Cisco IOS XE SD-WAN device via Cisco vManage template in service VPN
CSCvy90229	Cisco vManage cluster management page should not show Sys IP in drop down of "Cisco vManage IP Address"
CSCvy90707	IPS signature update not consistent on routers after Cisco vManage upgrade to 20.3.3.1
CSCvy93261	Cisco vManage nodes in a cluster with Stats-db ran into full GC allocation failure
CSCvy93431	After upgraded the Cisco vManage from 20.3 to 20.6, UI is not getting loaded
CSCvs90123	Cisco vManage became unusable after CPU spiked to 100% - no were operations performed during hike
CSCvy80654	The edge router maintains persistent connections to Cisco vBond

CSCvx15658	1 vManage GUI login lead 4 PAM login failures so two GUI login failure lead to account lock
CSCvy73412	Template push 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 SD-WAN Release 20.3.3

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 Release 20.3.3

Bug ID	Description
CSCvu43317	Cisco vBond Orchestrator connection Down Alarms or Events not appearing in Cisco vManage
CSCvv08199	[SIT]: vsmart policy edit failed with transport closed error
CSCvv36080	Seeing more hVNETs than maximum allowed
CSCvv40715	Multilink interface can not be configured without ppp authentication
CSCvv41341	Higher memory utilization on Cisco vManage 20.1
CSCvv45021	PPP feature templates cannot modify IP MTU on Dialer 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 vManage UI does not accept controller group more than 1
CSCvv71357	Cisco vManage GUI dashboard does not show number of Cisco vManage up when single node in cluster is down
CSCvv79430	Cisco SDWAN vManage 20.3.1 unable to display IP address of user access in audit log
CSCvv86465	Cisco vManage: Template Push fails with Unable to send line feed after string

Bug ID	Description
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
CSCvv89660	Failed to update configuration null error when pushing templates on 18.4.5
CSCvv98608	config preview failed with Exception in callback: BGP AS Number couldn't be retrieved in service VPN
CSCvw04082	Kernel Panic is seen after upgrade the Cisco vManage to 20.3 (watchdog)
CSCvw22190	Cluster activation failed because of a space in resource pool field in cluster config
CSCvw23740	In a cluster, an App server starting dependency should check a cluster, not just local service
CSCvw26979	Config-DB upgrade from 3.5.14 to 3.5.22 through Cisco vManage SW upgrade.
CSCvw28512	Difference in ip address of interface and json causing the stats db and config db in waiting
CSCvw31235	Add IPv6 OMP route support in Cisco vManage real time monitoring
CSCvw31737	Not able to successfully deploy vEdge routers with the cloudOnRamp wizard in Cisco vManage
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 vManage
CSCvw41702	Cisco vManage dpi classification incorrect
CSCvw41883	Cisco vManage template doesn't allow interface as next hop for static route
CSCvw42971	Cisco vManage: Multiple DNS servers in DHCP template gives "Invalid IPv4 address"
CSCvw44368	Translation profile/rules configured as part of a Voice policy not applied to dial-peers
CSCvw46769	CLI template push to vBond fails with "Device failed to process request. null" error
CSCvw50664	Cisco vManage Optional OSPF Configuration Removed when Device Template Updated
CSCvw52973	Cisco vManage UI is not coming up thread are stuck while updating factory default templates during startup
CSCvw53502	Logfiles flooded with message of tcgetattr: Input/output error
CSCvw56320	on-prem Cisco vManage ungraded to 20.3.2 from 19.2.3 rebooting in an interval of 10-15 min

Bug ID	Description
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 vManage 6 Node CLuster on Azure takes 2 mins to login to Cisco vManage UI.
CSCvw79982	Cisco vManage 20.3.2.1 requires read-replicas to speed up GUI access
CSCvw92805	Local configuration not showing preview of config on Cisco vManage 20.3.2
CSCvx03509	Audit log flooded with logouts from DR cluster
CSCvx07685	consul service is not enabled in DR registartion wth arbitrator
CSCvx09069	Increase process wait timeout for configdb upgrade
CSCvx09308	Escalations: coordination service logs GB log file filling up disk
CSCvx12847	root-cert corrupted after upgrading to 20.3.2 code
CSCvx16200	Cisco vManage 19.2.x - Cannot edit AAA feature template for vEdges
CSCvv35569	AMP data is not populated in Graphs under network level

Open Bugs for Cisco SD-WAN Release 20.3.3

Bug ID	Description
CSCvv13313	Select control connection TAB for any vsmarts, it will never show vbond connections
CSCvv41954	Customer couldn't login to 19.2.3 Cisco vManage using SSO unless the browser cache is cleared
CSCvv86418	Cloud OnRamp for Colo Port level view mapped ports on CSP to the wrong switch
CSCvw15630	Inconsistency between "show app flowd flows" and API response of DPI stats
CSCvw16238	Incorrect tag for omp routes in Real Time view

Bug ID	Description
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
CSCvw55764	VNF Install fail - VNF packages are not sync'd/copied in new added Cisco vManage node in Cisco vManage cluster
CSCvw62341	Cisco vManage Dashboard - Alarm time zone is tagging with incorrect time zone
CSCvw66441	Cisco vManage GUI not accessible due to too many open file descriptors.
CSCvw69181	OSPF alarm down seen on vamange, OSPF process is UP
CSCvw71474	Attempt to create cluster fails when adding 2nd member to standalone Cisco vManage
CSCvw73392	Frequent Cisco vManage UI timeout and stuck in Please continue waiting state.
CSCvw77794	"Invalid IPv4 address" is shown when inputting IPV6 DNS field
CSCvw83988	Cisco SD-WAN - Cisco vManage - ip helper not more than 1 is possible with Feature and Device Templates
CSCvw85706	Cisco vManage: UI is incorrectly showing the current version for Cisco vManage and vSmarts.
CSCvw91545	We are not able to change Controller Certificate Authorization options in Cisco vManage GUI
CSCvw91647	Issues with template created by API call
CSCvw91984	ACI APIC to Cisco vManage integration issue
CSCvw92189	Cisco vManage goes into out of memory resulting in slowness while pushing the template and accessing GUI.
CSCvw93203	serverproxy-access.log not rotating in /var/log/nms
CSCvw96264	UI showing console error after clicking on active/completed task as fails to show the details
CSCvw99518	SSO SAMLResponse Error validating SAML message at re-authentication
CSCvx00144	SSH via Cisco vManage GUI timeout in 180 seconds
CSCvx02002	Cisco vManage did not validate if the template value of an interface name was correct.
CSCvx03552	Configurations allows for multiple primary DNS servers
CSCvx05353	"request nms all status" command returning Python exception if containter-mgr svc was stopped

Bug ID	Description
CSCvx08817	DHCP excluded-address command is not being pushed via Cisco vManage template
CSCvx08942	Server slowness during GUI operations, system degrades until login is not possible
CSCvx09284	Escalations: messaging service timeout
CSCvx14444	netconf connection failures while installing certificate
CSCvx14750	Cisco vManage removes \ character when imported to cli template from running configuration
CSCvx16509	audit-log: invalid session with a user due to inactivity even though app-server not shutdown
CSCvx19853	Cisco vManage CLI template push failing due to controller transaction ID error
CSCvx19889	Creation of Cisco vManage DR Cluster Failed, GUI showing duplicate entry for DR Cisco vManage
CSCvx19948	Shaper Rate and QoS Map device specific variable get reset when changed to "Per-tunnel-QoS" hub
CSCvx23886	CLI template does not push snmp-server community config
CSCvx25217	cannot remove NAT configuration from the template in a single operation if NAT translation is active
CSCvx25441	Cisco vManage cluster does not show Graphs for less than 7 Days
CSCvx26988	Cisco vManage App Route Visualization - Citrix Flows are missed in GUI
CSCvx29421	"Server Error, Details: Unable to get pcap session" is printed in the Cisco vManage GUI
CSCvx29967	Fail to upload images to software repository post Cisco vManage upgrade to 19.2.4
CSCvx34074	/dataservice/device/omp/routes/advertised?deviceId reply is empty
CSCvx34991	Cisco vManage - TACACS requests are sourced from old interface IP after IP changed
CSCvx36896	Cisco vManage is unable to push both interface and ip as a next-hop
CSCvx37025	Cisco vManage: Control connection up with Edge devices however, do not show up on Dashboard
CSCvx37092	Cisco vManage DB can not boot up due to neo4j complains about older version
CSCvw37856	Cisco vManage utd/virtual image state stuck in DEPLOYED state after cEdge device app-host list is RUNNING
CSCvx35378	Template Push to device is Failed in Cisco vManage UI.
CSCvx44527	Sharepoint flows not forwarded properly

Bug ID	Description
CSCvx26148	Downloading the events CSV file results only 2 days of data irrespective of set time range.
CSCvx59840	Cisco vManage does not wait and confirm new partition when activating controllers
CSCvx37901	nms_bringup file has ^M in each line after service restart as part of DR

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 SD-WAN Release 20.3.2

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 Release 20.3.2

Bug ID	Description
CSCvs31361	Template push fails with Failed to update configuration - com.tailf.maapi.MaapiException
CSCvt96030	Cisco Banner Feature Template config Absent in Config preview
CSCvu08599	vManage Feature hostname / location template should support special characters
CSCvu15259	Vedge receives a packet to remove SPIs for duplicate IKEv2 SAs but it removes all the SPIs instead.
CSCvu36324	vEdge 100m lose IP for a Cellular interface
CSCvu37189	IPsec tunnel configured on cEdge drops LAN traffic when Loopback interface is used as tunnel source.
CSCvu40495	"show ipv6 interface" command returns incomplete IPV6 ADDRESS field
CSCvu41308	Console Logging on Global Settings Template does not get applied on cEdge
CSCvu69446	20.3 : Modifying Active policies by deleting existing sequence number fails
CSCvu71411	IKE IPSec: Generate an error message, if strongSwan can't execute rekey CLI
CSCvu87957	19.2.2 template push failing for 16.10.2 cedge devices
CSCvu88512	QOS-vEdge2K : not getting desired throughput when sending traffic more than shaping-rate
CSCvu93393	Multitenant vManage may send CSR to wrong VA
CSCvv00132	vEdge crashed with error "Software initiated - Daemon 'ompd' failed. Core files found"
CSCvv04607	In vManage 20.1.1 UI bootstrap 3.2.0 is vulnerable to multiple medium CVE
CSCvv20260	LLQ policer disappears when changed policy configuration
CSCvv20941	VNF Stats and SCHM reports shows empty after vManage upgrade from 20.1 to 20.3 R 908
CSCvv22466	vEdge cannot resolve vBond. No packets going out of loopback interface.
CSCvv28709	Vmanage UI: Enforce ZTP Version Add Software Version should show when no versions are aviable
CSCvv39370	BGP Type 8 hash changes even if "Avoid recompute of type 8 encrypted passwords" is enabled
CSCvv40390	vEdge 1000 crashed in version 20.3.1
CSCvv42322	Vmanage's change in AAA Feature is generating an error "Server error: Unknown error"

Bug ID	Description
CSCvv42937	No date and time info in the syslog payload
CSCvv47101	The request nms configuration-db configure command needs protection and documentation
CSCvv48564	20.3.1 messaging server reports not-running status after stop-all action, but is still running
CSCvv48890	vAnalytics - Launch vanalytics not working in vmanage UI
CSCvv50032	SSO auth errors, exception: Error determining metadata contracts
CSCvv53922	vManage 20.3.1 - Filter section never minimizes on the page Monitor > Geography
CSCvv54047	Unable to update feature template
CSCvv54671	vSmart OMPD crash on policy application
CSCvv63528	20.3 code vmanage is not accepting serial file from PnP portal or sync from smart account fails
CSCvv69070	vManage: PnP software version verification failure
CSCvv75771	XE SDWAN router crash due to system memory exhaustion caused by FTM memory growth
CSCvv75947	IP subnet as device specific variable not working for IPSec tunnel
CSCvv86113	cEdge: [no] allow-service https doesn't take effect on vManage template to the device
CSCvv09746	Cisco SD-WAN vManage Software XML External Entity Vulnerability
CSCvv21757	Cisco SD-WAN vManage Software Privilege Escalation Vulnerability
CSCvv21754	Cisco SD-WAN vManage Software Directory Traversal Vulnerability
CSCvv42376	Cisco SD-WAN Software Privilege Escalation Vulnerability
CSCvv42398	Cisco SD-WAN Software Privilege Escalation Vulnerability
CSCvv42551	Cisco SD-WAN Software Privilege Escalation Vulnerability
CSCvv42620	Cisco SD-WAN vManage Cross-Site Scripting Vulnerability
CSCvv42616	Cisco SD-WAN vManage Software Cross-Site Scripting Vulnerability
CSCvv02305	Cisco SD-WAN vManage Software XML External Entity Vulnerability
CSCvv42602	Cisco SD-WAN vManage Software Authorization Bypass Vulnerability
CSCvv03658	Cisco SD-WAN vManage Software Path Traversal Vulnerability
CSCvv21747	Cisco SD-WAN vManage Software Command Injection Vulnerability

Bug ID	Description
CSCvv21749	Cisco SD-WAN vManage Software Arbitrary File Creation Vulnerability
CSCvw08529	Cisco SD-WAN vManage Cypher Query Language Injection Vulnerability

Open Bugs for Cisco SD-WAN Release 20.3.2

Bug ID	Description
CSCvo21728	vEdge forming duplicate control-connections after increasing number of cores on vSmart
CSCvq30332	fp-core watchdog failure on vEdge 5k running 18.4.1 (fp-um)
CSCvr94659	vEdge cloud - Token getting lost after rebooting vEdge Cloud for two times.
CSCvt78292	Template attaching failure, system-ip referanses to old chassis-number
CSCvu78635	Multicast autorp issue with vEdge/cEdge mixed deployment
CSCvu85034	vManage GUI shows "-" in RX Drop column, under Monitor > Network > Real Time > Interface Statistics
CSCvu94036	vManage: Client timed out waiting for request taking longer than 60s after save ND template
CSCvv04056	When generating new certificate for SSO login to vManage started to fail
CSCvv11604	ISR 4000 Cedge : Only one T1 card is getting enabled via CLI template while two are inserted
CSCvv25745	Nutella - vManage not showing the correct hostname for Nutella device
CSCvv29416	CLI template push for banner login <> configuration fails on cedge
CSCvv31065	Unable to edit vbond config via CLI , when control connection breaks from vmanage.
CSCvv36080	Seeing more hVNETs than maximum allowed
CSCvv40715	Multilink interface can not be configured without ppp authentication
CSCvv44894	Web traffic is not properly recognized by DPI
CSCvv48087	Task update issues, large customer setup with cluster
CSCvv51651	[vedge][iperf] vedge iperf doesnt work in vpn 0 on 18.4.4 as well as 19.2
CSCvv52763	20.3 config-db upgrade script reports success even when it fails
CSCvv53493	vmanage is not generating the TLS Proxy Certificate after Device comes online
CSCvv57951	cEdge: Option field in EIGRP template interface section is not working
CSCvv61427	Template attach validation error misreported

Bug ID	Description
CSCvv62817	Able to ssh into a vEdge even after ciscotac{ro|rw} account is disabled.
CSCvv64821	vManage Site Health shows wrong number of sites
CSCvv71357	vManage GUI dashboard does not show number of vManage up when single node in cluster is down
CSCvv78340	17.2/20.1 MR bfd session down after enable pairwise-keying
CSCvv78705	ADFS SP initiated SSO is in continuous login loop - vManage
CSCvv79430	Cisco SDWAN vManage 20.3.1 unable to display IP address of user access in audit log
CSCvv82149	ISR1100-6G vEdge reboot after Centralized policy push
CSCvv84742	Workaround is needed for Operator user to be able to view device configurations post VManage 19.2.3
CSCvv86418	Cloud OnRamp for Colo Port level view mapped ports on CSP to the wrong switch
CSCvv86471	Performance degradation observed on Nutella with 20.3.1 CCO with all the profiles
CSCvv88334	Email Notifications: with custom devices list a Number of 'Devices Attached' is blank when edit it
CSCvv95003	Smart Sync Account sends CEC password in clear text which is a security hole.
CSCvv95571	vmanage control does not fail over if there are too many vbond addresses
CSCvv97687	Performance degradation observed on vEDGE-1k and 2k with 20.3.1 CCO
CSCvw00577	Control connections are stuck in challenge state
CSCvw00685	Data prefix list in centralise policy takes long time to process in backend to view/edit operations
CSCvw01769	Not able to configure ADSL interface.
CSCvw02925	After vManage config-db restore, the webhook checkbox is no longer selected
CSCvw03203	OMP stuck in init/down even though control is up
CSCvw03769	vEdge 1000: BGP may advertise a default route that doesn't exist in RIB or OMP
CSCvw04245	OMP routes learnt via MPLS color is showing as connected route for Biz-internet color in vManage UI
CSCvw07842	vManage Error : Failed to configure. Database [vmanagedb] instance is interrupted
CSCvw08459	API /dataservice/device/dhcp/client?deviceId= reports incorrect string
CSCvw10824	Buffer pool leak seen on ISR1100-6G

Bug ID	Description
CSCvw13663	Vedge_cloud_19.2.921 - FP misprogramming
CSCvw14305	Packet forwarding incorrectly over BGP
CSCvw14318	admin tech on vEdge takes more than 2 hours to generate
CSCvw14973	Upgrade from 18.4.5 to 19.2.31 failed
CSCvw16238	Incorrect tag for omp routes in Real Time view
CSCvw16643	Device Template failing to attach after changing few device variables
CSCvw16700	OMP advertised routes is returning both advertised and what it learned from OMP in 19.2.3
CSCvw16970	vEdge running 19.2.2 has buffer pool getting depleted, core utilization going to 99.9%
CSCvw17601	Home user files changing ownership after reload
CSCvw17655	vEdge DPI for MS Teams does not work well
CSCvw17849	bfd session between vedge not come up via nat router
CSCvw18153	Template to Inject Default Route to OMP when Local DIA Used is not working
CSCvw18428	GRE interface went down after swapping configuration in 2 interfaces
CSCvw37217	Cisco SD-WAN Manager: Template push to Cisco ISR 4000 may fail after upgrading the code of Cisco SD-WAN Manager from 20.3.1 to 20.3.2
CSCvv54844	ConfigDB not updating username/password

Bugs for Cisco SD-WAN Release 20.3.1

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 Release 20.3.1

Bug ID	Description
CSCvi69788	Cisco SD-WAN Manager ElasticSearch is exposed to changes from any user using the Vshell (Posix), and has no authe
CSCvr29345	"show ospf database" does not show Type 5 external LSAs
CSCvs05128	Cisco SD-WAN passwords with an exclamation character does not work on vEdges and controllers
CSCvs07518	Cisco SD-WAN Manager stores stale session and renders to j_security_check or last cached url
CSCvs39545	Cisco SD-WAN Manager: for ipsec IKE Diffie-Hellman Group 2 should be removed

Bug ID	Description
CSCvs70746	[Azure] Cisco SD-WAN Manager rebooted on 19.3 with Software initiated - Kernel Panic
CSCvs72371	Cisco SD-WAN Manager showing alarm " vEdge serial file uploaded"
CSCvt00153	Cisco SD-WAN Manager Security Policy ZBF can't use Protocol Names
CSCvt00459	Template page returning Server error: Unknown error
CSCvt04564	Template locked in edit mode permanently
CSCvt21380	Cisco SD-WAN Manager fail to create bootstrap config
CSCvt29432	Support for moving packet from service VPN to VPN 0 without changing source ip
CSCvt30224	Slash symbol cannot be used in a variable value of any device specific parameter scope in templates
CSCvt38373	Cisco SD-WAN Manager periodic cfgmgr crash
CSCvt50756	Doing "simulate flows" from Cisco SD-WAN Manager running 20.1 causes FTMD crash on ASR1002-HX running 16.12.01e
CSCvt52882	Cisco SD-WAN Manager API does not accept URL encoded string as path argument (the real problem is device has /)
CSCvt55924	SSH version 2 not available via Cisco SD-WAN Manager Template
CSCvu05280	[Enhancement] "ip http client source-interface" cannot be configured via template
CSCvu05829	route leaking between VPN with natpool in one VPN is not working.
CSCvu14289	Missing callin option in "ppp authentication pap ..." after upgrading to 20.1.1
CSCvu18699	EIGRP - Removing authentication template does not remove it entirely
CSCvu30288	Cisco SD-WAN Manager does not generate and push BGP "neighbor update-source" command in cedge cli template
CSCvu31228	cfgmgr changes needed from platform to support IPv6 on VPN 512
CSCvu41144	20.1 cEdge TACACS/RADIUS password are in clear text on Cisco AAA feature template
CSCvu46222	Cisco SD-WAN Managerdoes not generate and push DHCP "ip dhcp excluded-address" command in cedge cli template
CSCvu48660	Optional field is not considered as optional.
CSCvu49030	"Chassis Number not found" fails to indicate the problematic entry - Need more details in logging
CSCvu70566	20.3:Template Migration failing if device template is created for CLI Template in 19.2.x

Bug ID	Description
CSCvu71611	Disable support for weak encryption ciphers on Cisco SD-WAN Manager and vSmart.
CSCvu93775	Cisco SD-WAN Manager image validation may fail for ZTP upgrade process on cEdge
CSCvu94816	WWAN : update cellular ZTP Polish carrier list
CSCvv25817	Cisco SD-WAN Manager API call showed error message "Exceeded possible number of hits to the API".
CSCvv09807	Cisco SD-WAN Software Arbitrary File Creation Vulnerability
CSCvu71921	Cisco SD-WAN Software Privilege Escalation Vulnerability
CSCvv42576	Cisco SD-WAN vManage Cypher Query Language Injection Vulnerability
CSCvi59632	Cisco SD-WAN vManage Software Path Traversal Vulnerability
CSCvi59726	Cisco SD-WAN vManage SQL Injection Vulnerabilities
CSCvi69962	Cisco SD-WAN Information Disclosure Vulnerability
CSCvk28549	Cisco SD-WAN vManage Software Path Traversal Vulnerability
CSCvk28609	Cisco SD-WAN vManage SQL Injection Vulnerabilities
CSCvk28656	Cisco SD-WAN vManage SQL Injection Vulnerabilities
CSCvk28667	Cisco SD-WAN vManage SQL Injection Vulnerabilities
CSCvs11276	Cisco SD-WAN vManage Information Disclosure Vulnerability
CSCvs99259	Cisco SD-WAN vManage SQL Injection Vulnerabilities

Open Bugs for Cisco SD-WAN Release 20.3.1

Bug ID	Description
CSCvq77957	MTCVM: AAA login to Multi-tenant Cisco SD-WAN Manager GUI is not working via TACACS
CSCvu19795	Confg-db error during the application-server startup
CSCvu48133	show ip route vpn <id> <ip address> isn't working with new confd version
CSCvu53588	DC1 Cisco SD-WAN Manager template attachment disappear after a switchover
CSCvu69446	20.3 : Modifying Active policies by deleting existing sequence number fails
CSCvu71432	Config O356 Endpoints with prefixes less specific than 24 with Custom App from web servcies API
CSCvu77817	OMPD crash with control-policy export vpn

Bug ID	Description
CSCvu78635	Multicast stops working on vEdge
CSCvu87957	19.2.2 template push failing for 16.10.2 cedge devices
CSCvu88261	vEdge HUB is missing config after Cisco SD-WAN Manager successfully attached template to vedge and is in sync
CSCvu92172	Cisco SD-WAN Manager HELP redirects to cisco Intranet pages (Unreachable)
CSCvu93393	Multitenant Cisco SD-WAN Manager may send CSR to wrong VA
CSCvu95532	Cisco SD-WAN Manager: Cisco SD-WAN Manager dashboard is reporting error while cluster management is all fine
CSCvu99861	Vedge end of line for the banner in 20.1 is not working as it did in 19.2
CSCvv00132	vEdge crashed with error "Software initiated - Daemon 'ompd' failed. Core files found"
CSCvv00251	OMP Crash || Software initiated - Daemon 'ompd' failed
CSCvv03068	vEdge control connections goes down after CSR generation
CSCvv04056	When generating new certificate for SSO login to Cisco SD-WAN Manager started to fail
CSCvv05641	20.3.907-16 : vBond upgrade fails after image download with control not established
CSCvv06133	port 830 open for Service/Management VPN.
CSCvv06517	Cisco SD-WAN Manager running 19.2.2 may stop responding to API calls for approutestatsstatistics
CSCvv10287	CoR probes working for O365 but failing for every other SaaS application
CSCvv11071	Cisco SD-WAN Manager is attempting to strip multiple LTE modem configs from ISR1000 and template push fails
CSCvv12705	vEdge Cloud | System Initialization Stuck on KVM Platform running Ubuntu 14
CSCvv18311	fpmd crashes on vEdge1k, 2k with 19.2.1, 18.4.302
CSCvv19652	vEdge crashes with dbgd failed message when running speed test
CSCvv21710	Cisco SD-WAN Cisco SD-WAN Manager Full GC (Allocation Failure)
CSCvv22385	Cisco SD-WAN Manager GUI down due to GC Allocation Failure on 19.2.3
CSCvv22466	vE5k after upgrade to 19.2.3 isn't form control connections; doesn't able to resolve vBond URL
CSCvv25745	Nutella - Cisco SD-WAN Manager not showing the correct hostname for Nutella device

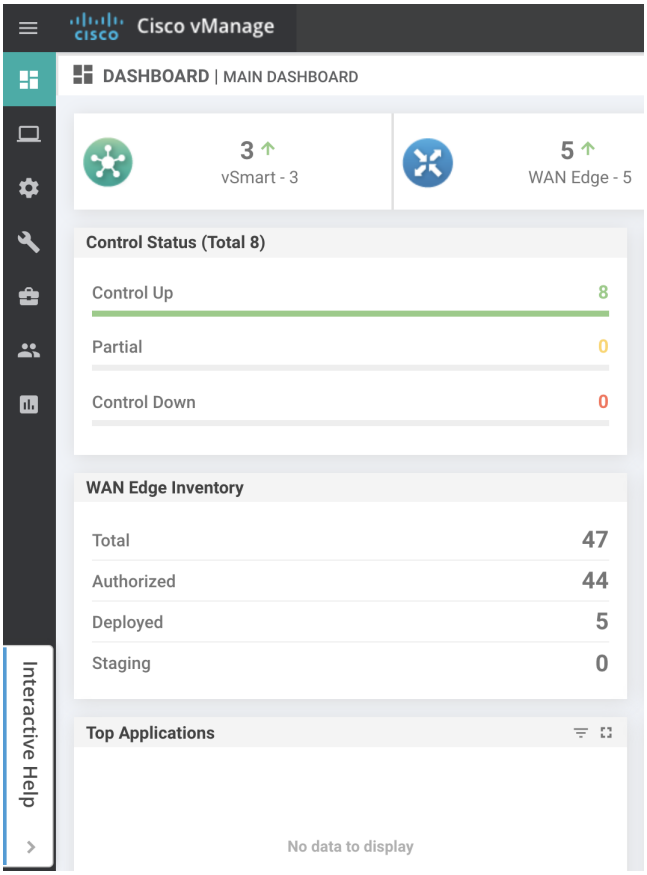
Bug ID	Description
CSCvv26925	ip community-list expanded test permit 64700:[0-9]+ not able to configure on vMnanage template.
CSCvv27194	vSmart crashes during vExpress run
CSCvv28149	Email List does not accept co.in email addresses
CSCvv29989	Control connection of vEdge Cloud going down after DR.
CSCvv31065	Unable to edit vbond config via CLI , when control connection breaks from Cisco SD-WAN Manager.
CSCvv31391	Cisco SD-WAN Manager: Configuration database restore in cluster fails due to password mismatch.
CSCvv34148	Need to Remove the unsupported device - C1117-4PLTEEAWA* from Cisco SD-WAN Manager 17.3/20.3 throttle
CSCvv40966	Remove all unsupported devices from 20.3 throttle
CSCvv48890	vAnalytics - Launch vAnalytics not working in Cisco SD-WAN Manager UI
CSCvv42937	No date and time info in the syslog payload
CSCvv49157	This serial number in upload file is already associated with another vEdge Error in Cisco SD-WAN Manager 20.3.1
CSCvw35025	vEdge system buffer pool depletion and data plane stops forwarding with device-access-policy config
CSCvx68246	Changing Config-DB ID/Password from default to non-default on a cluster of more than 3 members

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 2: 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.
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	

Workflow	Description
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 SD-WAN Device Compatibility.

Related Documentation

- Release Notes for Previous Releases
- Software Installation and Upgrade for vEdge Routers
- Field Notices
- Recommended Releases
- Security Advisories
- Cisco Bulletins

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