Release Notes for Cisco vEdge Devices, Cisco SD-WAN Release 19.2.x

First Published: 2019-08-15

Last Modified: 2021-03-30

Release Notes for Cisco SD-WAN Release 19.2.x

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

These release notes accompany the Cisco SD-WAN Release 19.2.x, which provides Cisco SD-WAN capabilities for Cisco vEdge devices—including Cisco vSmart Controllers, Cisco vBond Orchestrators and Cisco vManage as applicable to Cisco vEdge devices.

For release information about Cisco IOS XE SD-WAN devices, refer to Release Notes for Cisco IOS XE SD-WAN Release 16.12.x.

What's New for Cisco SD-WAN Release 19.2.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: What's New for Cisco vEdge Device

Feature	Description
Getting Started	
API Cross-Site Request Forgery Prevention	This feature adds protection against Cross-Site Request Forgery (CSRF) that occurs when using Cisco SD-WAN REST APIs. This protection is provided by including a CSRF token with API requests. You can put requests on an allowed list so that they do not require protection if needed. See Cross-Site Request Forgery Prevention.

Feature	Description
Systems and Interfaces	
Secure Shell Authentication Using RSA Keys	This feature helps configure RSA keys by securing communication between a client and a Cisco SD-WAN server. See SSH Authentication using vManage on Cisco XE SD-WAN Devices. See Configure SSH Authentication.
Policies	
Packet Duplication for Noisy Channels	This feature helps mitigate packet loss over noisy channels, thereby maintaining high application QoE for voice and video. See Configure and Monitor Packet Duplication.
Control Traffic Flow Using Class of Service Values	This feature lets you control the flow of traffic into and out of a Cisco device's interface based on the conditions defined in the quality of service (QoS) map. A priority field and a layer 2 class of service (CoS) were added for configuring the re-write rule. See Configure Localized Data Policy for IPv4 Using Cisco vManage.
Security	
Secure Communication Using Pairwise IPsec Keys	This feature allows you to create and install private pairwise IPsec session keys for secure communication between an IPsec device and its peers. For related information, see IPSec Pairwise Keys Overview.
Configure IKE-Enabled IPsec Tunnels	The pre-shared key needs to be at least 16 bytes in length. The IPsec tunnel establishment fails if the key size is less than 16 characters when the router is upgraded to version 19.2. See Configure IKE-Enabled IPsec Tunnels.
Network Optimization and High Availability	
Disaster Recovery for vManage	This feature helps you configure Cisco vManage in an active or standby mode to counteract hardware or software failures that may occur due to unforeseen circumstances. See Configure Disaster Recovery.
Share VNF Devices Across Service Chains	This feature lets you share Virtual Network Function (VNF) devices across service chains to improve resource utilisation and reduce resource fragmentation. See Share VNF Devices Across Service Chains.
Monitor Service Chain Health	This feature lets you configure periodic checks on the service chain data path and reports the overall status. To enable service chain health monitoring, NFVIS version 3.12.1 or later should be installed on all CSP devices in a cluster. See Monitor Service Chain Health.
Manage PNF Devices in Service Chains	This feature lets you add Physical Network Function (PNF) devices to a network, in addition to the Virtual Network function (VNF) devices. These PNF devices can be added to service chains and shared across service chains, service groups, and a cluster. Inclusion of PNF devices in the service chain can overcome the performance and scaling issues caused by using only VNF devices in a service chain. See Manage PNF Devices in Service Chains.

Important Notes, Known Behavior, and Workaround

When you complete a Cisco SD-WAN software downgrade procedure on a device, the device goes into the configuration mode that it was in when you last upgraded the Cisco SD-WAN software on the device. If the device is in a different configuration mode when you start the downgrade than it was when you last upgraded, the device and Cisco vManage show different configuration modes after the downgrade completes. To put the configuration modes back in sync, reattach the device to a device template. After you reattach the device, both the device and Cisco vManage show that the device is in the vManage configuration mode.

Cisco vManage Upgrade Paths

Table 2:

Starting Cisco vManage Version	Destination Version
	19.2.x
18.x/19.2.x	Direct Upgrade
20.1.x	Not Supported
20.3.x	Not Supported
20.4.x	Not Supported

Supported Devices

For device compatibility information, see Cisco SD-WAN Device Compatibility.

Controller Compatibility Matrix and Server Recommendations

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

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.

Resolved and Open Bugs

All resolved and open bugs for this release are available in the Cisco Bug Search Tool.

Resolved and Open Bugs for Cisco SD-WAN Release 19.2.4

Table 3: Resolved Bugs for Cisco SD-WAN Release 19.2.4

Bug ID	Description
CSCvp21016	vEdge FTMD crash when using FQDN as tunnel-destination
CSCvq30332	fp-core watchdog failure on vEdge 5k running 18.4.1 (fp-um)
CSCvr54226	don't add certificate errors into configure DB
CSCvr84704	vManage fails to login if Encryption algorithm is set to SHA-256 for ADFS
CSCvs07518	vManage stores stale session and renders to j_security_check or last cached url
CSCvs48535	%IPSEC-3-REPLAY_ERROR: + BFD down and drops IN_CD_COPROC_ANTI_REPLAY_FAIL
CSCvs96019	19.2 vSmart omp keeps crashing when edge device is higher version than vSmart
CSCvt12098	vedge cloud 18.4.3/19.2.1 on top of NFVIS(3.12.3 RC4) stop fowarding traffic when CU flap interface.
CSCvt26948	vManage re-arrange rules issue
CSCvt30224	Slash symbol cannot be used in a variable value of any device specific parameter scope in templates
CSCvt48880	vManage: real time omp advertised routes in vmanage showing received routes as well.
CSCvt55446	Misleading logout event
CSCvt84946	Cloud onRamp for IaaS on AWS: default route to null0 blackholes traffic sent to Internet
CSCvu05829	route leaking between VPN with natpool in one VPN is not working.
CSCvu06877	Regression: vEdge2000 cannot exceed more than 65K NAT sessions over GRE or IKE IPSec tunnel
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.
CSCvu19754	Cannot ssh into vsmart, vbond with GCM ciphers
CSCvu21309	BFD sessions flap after multiple control connection flaps to the vSmart.
CSCvu23499	"show ip route vpn " output not showing specific routes for omp routes
CSCvu29677	vManage misleading error regarding multitenancy in singe tenant environment cluster

Bug ID	Description
CSCvu31137	CSR signed certificate fails when vManage configured with timezone America/Sao_Paulo with Cisco PKI
CSCvu31763	Cisco SD-WAN Denial of Service Vulnerabilities
CSCvu35813	A tenant logged into vManage using tenantadmin fails to attach a device to a template (feature/cli)
CSCvu36324	vEdge 100m lose IP for a Cellular interface
CSCvu36501	"ftmd' crash on vEdge when cellular interface is present and "show interface" is executed
CSCvu38473	ISR1100-4GLTE not showing when SIM is Locked
CSCvu49885	traffic flows are not load-balanced fairly across all available cores when using GRE tunnel in vedge
CSCvu50167	vSmart seeing crashes with high policy-queue.
CSCvu53588	DC1 vmanage template attachment disappear after a switchover
CSCvu53617	Make 30 notifications / min restriction for webhook alarm notification configurable
CSCvu54906	Template update :Request time out:Client timed out waiting for request taking longer than 90 secs
CSCvu56405	Uploaded WAN-Edge list rejected, chassis tag missing
CSCvu58050	SSO SAMLResponse redirect points to loginError.html unexpectedly
CSCvu58459	Critical customer with 19.2.2, 4 vManage cluster is running into Full GC allocation failure
CSCvu60421	Downgrade of vmanage should be blocked as a part of activate also along with install workflows.
CSCvu64608	vbond information is lost during replication after multiple failovers
CSCvu69390	error message "Server error Unknown error" while accessing tloc and tunnel in WAN status
CSCvu69444	SNMP Query for Interface Description OID breaks if description is longer than 32 characters.
CSCvu71611	Disable support for weak encryption ciphers on vManage and vSmart.
CSCvu74275	MSP: wildfly: kafka is not yet functional
CSCvu74421	SNMP v3 walk is failing in vsmart and vedges
CSCvu77817	OMPD crash with control-policy export vpn
CSCvu79620	tunnel interface is admin up and oper down but local properties show admin and oper as down

Bug ID	Description
CSCvu87254	vManage spends 60+ seconds to parse the device template with 500+ variables
CSCvu87754	100M shaper will introduce inaccurate throughput with traffic oversubscribed on ISR1100-4G
CSCvu92440	Cisco PKI Root Certificates not installed in recent images
CSCvu97198	vManage: Only allow 1yr option since 2/3yr options are deprecated
CSCvv00116	Vmanage 20.1.12 when selecting "Mark as optional" under radius will fail with an error
CSCvv00132	vEdge crashed with error "Software initiated - Daemon 'ompd' failed. Core files found"
CSCvv03068	vEdge control connections goes down after CSR generation
CSCvv07412	Device is unreachble, interfaces are showing as up
CSCvv10287	CoR probes working for O365 but failing for every other SaaS application
CSCvv14033	vManage revokes devices enterprise cert after hitting "Send to Controllers"
CSCvv17381	vEdge5000: control connection stuck in "Challenge" phase - Failed to create IdentityReqBlob
CSCvv18138	vegde is dropping bfd packets from cedge.
CSCvv18311	Large number of sequences in localized policy causing fpmd crash.
CSCvv18872	On the NSO of the vManage, the address of the vSmarts was set as 0.0.0.0
CSCvv19403	MSP: user is logged out of GUI eventhough client session timeout is disabled
CSCvv19652	vEdge crashes with dbgd failed message when running speed test
CSCvv20260	LLQ policer disappears when changed policy configuration
CSCvv22275	Unable to see stats on vAnalytics in 18.4.5
CSCvv22466	vEdge cannot resolve vBond. No packets going out of loopback interface.
CSCvv24320	Multiples vEdges crashing with "Software initiated - Daemon 'ftmd' failed"
CSCvv32465	Pointing to a wrong URL for changing the default config. DB username and password
CSCvv32615	ConfigDB credentials are exposed in cleartext
CSCvv37343	WebHooks fails in vManage when more than one is configured
CSCvv39961	Frequent Exceptions "Unable to process request = /clusterManagement/tenancy/mode from client X"
CSCvv42937	No date and time info in the syslog payload

Bug ID	Description
CSCvv44894	Web traffic is not properly recognized by DPI
CSCvv47101	The request nms configuration-db configure command needs protection and documentation
CSCvv50032	SSO auth errors, exception: Error determining metadata contracts
CSCvv52553	Messaging server crash information saved in ramdrive
CSCvv54150	vedge_azurecloud_cloud_18_4_0 console logs are getting filled with HTTP logs
CSCvv54671	vSmart OMPD crash on policy application
CSCvv54844	ConfigDB not updating username/password
CSCvv58559	vmanage triggered alert "Could not store alarm:" resulting alarm trigger at provider.
CSCvv59996	vAnalytics launch lands on a "about:blank" page on 19.2.3 image version
CSCvv60007	DCA engine may not be able to reach vManage
CSCvv61236	SNMP community not accepting exclamation ! in string
CSCvv65954	UI timeout before Centralized Policybackend operation is completed
CSCvv66595	dbgd crash observed on the vEdge router while running a speed test.
CSCvv75130	/opt/data/backup permission denied
CSCvv79647	UI timeout needs to be changed to 180 seconds for policy and security view generation
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
CSCvv90381	Vedge reversing the src and dst MAC instead of using its own src-mac.
CSCvw10824	Buffer pool leak seen on ISR1100-6G
CSCvw17655	vEdge DPI for MS Teams does not work well
CSCvw28614	Unable to login through SSO with vManage on 19.2.31
CSCvw35718	drconsul service start in cluster while arbitrator is not in use
CSCvw53100	Enhance syslog format for SDWAN to align with RFC standard
CSCvw55778	vManage reverts a CLI template to its original version incorrectly.
CSCvs52888	Add host-name or personality in the admin-tech filename
CSCvu16655	Ater doing a manual DR, the "make primary" button did not show in new standby
CSCvi59635	Cisco SD-WAN Command Injection Vulnerabilities

Bug ID	Description
CSCvi59639	Cisco SD-WAN Command Injection Vulnerabilities
CSCvi69982	Cisco SD-WAN Command Injection Vulnerabilities
CSCvm26011	Cisco SD-WAN Command Injection Vulnerabilities
CSCvu28387	Cisco SD-WAN Command Injection Vulnerabilities
CSCvu28443	Cisco SD-WAN Command Injection Vulnerabilities

Table 4: Open Bugs for Cisco SD-WAN Release 19.2.4

Bug ID	Description
CSCvx24858	Disaster recovery feature failing with error apoc.periodic.iterate
CSCvx29967	Fail to upload images to software repository post Cisco vManage upgrade to Cisco SD-WAN Release 19.2.4

Resolved and Open Bugs for Cisco SD-WAN Release 19.2.31

Table 5: Resolved Bugs for Cisco SD-WAN Release 19.2.31

Bug ID	Description
CSCvs48535	%IPSEC-3-REPLAY_ERROR: + BFD down and drops IN_CD_COPROC_ANTI_REPLAY_FAIL
CSCvt12098	vedge cloud 18.4.3/19.2.1 on top of NFVIS(3.12.3 RC4) stop fowarding traffic when CU flap interface.
CSCvt84946	Cloud onRamp for IaaS on AWS: default route to null0 blackholes traffic sent to Internet
CSCvu36501	"ftmd' crash on vEdge when cellular interface is present and "show interface" is executed
CSCvu58459	Critical customer with 19.2.2, 4 vManage cluster is running into Full GC allocation failure
CSCvu69444	SNMP Query for Interface Description OID breaks if description is longer than 32 characters.
CSCvu77817	OMPD crash with control-policy export vpn
CSCvu98521	Device's are not booting up after a power outage
CSCvv03068	vEdge control connections goes down after CSR generation
CSCvv14033	vManage revokes devices enterprise cert after hitting "Send to Controllers"
CSCvv18311	fpmd crashes on vEdge1k, 2k with 19.2.1, 18.4.302

Bug ID	Description
CSCvv18872	On the NSO of the vManage, the address of the vSmarts was set as 0.0.0.0
CSCvv19652	vEdge crashes with dbgd failed message when running speed test
CSCvv22385	vManage GUI down due to GC Allocation Failure on 19.2.3
CSCvv24320	Multiples vEdges crashing with "Software initiated - Daemon 'ftmd' failed"
CSCvv55152	Unable to edit the device template if security policy is attached
CSCvv65954	UI timeout before Centralized Policybackend operation is completed
CSCvv79647	UI timeout needs to be changed to 180 seconds for policy and security view generation
CSCvr54226	don't add certificate errors into configure DB
CSCvs58213	Vedge-5000:Auto IP feature support for feature parity.
CSCvu74421	SNMP v3 walk is failing in vsmart and vedges
CSCvv22275	Unable to see stats on vAnalytics in 18.4.5
CSCvv60007	DCA unable to reach vManage
CSCvv66595	dbgd crash observed on the vEdge router while running a speed test.
CSCvu06877	Regression: vEdge2000 cannot exceed more than 65K NAT sessions over GRE or IKE IPSec tunnel
CSCvu87754	100M shaper will introduce inaccurate throughput with traffic oversubscribed on ISR1100-4G
CSCvq30332	fp-core watchdog failure on vEdge 5k running 18.4.1 (fp-um)
CSCvs70534	vEdge(x86) IPSec+QoS Performance Optimization
CSCvu58050	SSO SAMLResponse redirect points to loginError.html unexpectedly
CSCvv89447	Cisco SD-WAN vManage cluster kills session after idle-timeout expires even when traffic is present
CSCvw10824	Buffer pool leak seen on ISR1100-6G
CSCvv09746	Cisco SD-WAN vManage Software XML External Entity Vulnerability
CSCvv02305	Cisco SD-WAN vManage Software XML External Entity Vulnerability
CSCvv03658	Cisco SD-WAN vManage Software Path Traversal Vulnerability

Open Bugs for Cisco SD-WAN Release 19.2.31

Table 6: Open Bugs for Cisco SD-WAN Release 19.2.31

Bug ID	Description
CSCvw28614	Unable to login through SSO with vManage on 19.2.31
CSCvu35608	Disaster Recovery: Secondary vmanage cluster shows 200,000 vmanages instead of 3 on main dashboard
CSCvv54844	ConfigDB not updating username/password

Resolved and Open Bugs for Cisco SD-WAN Release 19.2.3

Resolved Bugs for Cisco SD-WAN Release 19.2.3

Table 7: Resolved Bugs for Cisco SD-WAN Release 19.2.3

Bug ID	Description
CSCvo72974	vE5K performance drops significantly using loopback TLOC without 'bind' configuration
CSCvq30348	fp-core watchdog falure on vEdge 5k running 18.4.1 tcpd crash
CSCvq68888	vManage is showing certificate expiry alarms under the 'Certificates' pane on the dashboard
CSCvq91658	Error in sending device list for Push vSmart List to vBond
CSCvr35741	DPI statistics database configuration memory increase
CSCvr52733	vedge frequently establishing control connections to the vBond even though it is in equilibrium
CSCvr92326	Cloud on Ramp not pushing configuration to vEdge-Cloud when adding Sites
CSCvs10190	vEdge WLAN iPhone Wireless Clients dropping connection after 1-3 mins
CSCvs14717	IPsec tunnel stuck in IKE_INIATE with vEdge not initiating IKE packets.
CSCvs26265	Data collection is slow on vManage after enabling vAnalytics
CSCvs34951	API should validate value of platformFamily + Enforce sw version ZTP configures isr1100 for x86 img
CSCvs36978	Enforce Software Version : Device already has image error
CSCvs49176	vEdge VRRP fail to receive unicast traffic over i40evf
CSCvs64250	regression: can't configure dhcp default route in vManage 19.3.0
CSCvs67769	Can not create vManage user to access disaster recovery other than admin user

Bug ID	Description
CSCvs70961	vmanage gui not accessible as /opt/data is 100% full. App server down
CSCvs83609	Dbgd daemon crashed with signal 6 after running vEdge packet capture
CSCvs84918	Traffic simulation is not working properly on 19.2.1
CSCvs95487	vEdge 2k with 17.2.8 see high CPU because of process vconfd_script_vmanage_list_stats.sh
CSCvs96758	Not getting omp label on the edge devices which is causing traffic to take another link.
CSCvt16841	Vedge ipsec tunnel stops passing traffic during high load and rekey
CSCvt25691	Vmanage reloads with reason: Daemon 'cfgmgr' failed
CSCvt28482	vedge SRIOV networks are unreachable after remote interface flap
CSCvt34095	vBond DNS resolution may fail in ECMP environment
CSCvt39342	ZBFW + IRB show severe packet loss
CSCvt42611	Performance is very low with subinterfaces on vEdge5k
CSCvt46779	Route export not working as desired during failover testing
CSCvt54485	Nat over IPsec not working with ZBFW
CSCvt61421	vedge-cloud with SRIOV interfaces unable to receive IP packets more than 1496 bytes
CSCvt61717	Route export not working as expected during failover testing
CSCvt62324	TS/SS: Fail to push template and create admin log from UI. Failed to publish the task on message bus
CSCvt65197	vEdge SDWAN IPsec tunnel flapping due IKE packet drops
CSCvt66337	Shaping rate in x86 platform not working properly for TCP traffic
CSCvt70360	Inconsistency between "show app dpi flows" output and Current flows count in show app dpi summary
CSCvt71865	SNMP not working on tunnel interface and to loopback interface in vpn 0.
CSCvt74507	RDP Session resets with 802.1x running with default reauth and inactivity values
CSCvt76335	vedge frequently establishing control connections to the vBond even though it is in equilibrium
CSCvt95983	vEdge Cloud: vEdge on Azure may go into a bootloop state after an upgrade from 18.x.x to 19.2.2
CSCvt97764	Dhcp helper option not available in static mode in feature template for vedge and xe-sdwan

Bug ID	Description
CSCvu26847	isr1100 unable to communicate with vbond due to Board ID Signature Verify Failure
CSCvu28927	vmanage dr standby cluster not replicating feature templates even config-db replication is success
CSCvu44708	Vedge doesn't initiate an IKE negotiation, it sends a CREATE_CHILD_SA instead
CSCvu59327	VManage alarms Control TLOC Down and BFD TLOC Down are not raised on the GUI all the time
CSCvt65634	Show system status shows CPU allocation is 3 when deployed with 2
CSCvt66319	Traffic stop sending across WAN when WAN link got unplugged and packet duplication is on :ISR1100-4G
CSCvs48327	ISR1100-4G, ISR1100-6G Fixed speed 100/10 full duplex config are not supported on RJ45 ports.
CSCvu36501	SDWAN 20.3 - 'ftmd' crash on vEdge100WM while activating/deactivating policy from vSmart.
CSCvs21315	Insecure Product Design exposes sensitive information to non-admin user.
CSCvv42576	Cisco SD-WAN vManage Cypher Query Language Injection Vulnerability
CSCvw08529	Cisco SD-WAN vManage Cypher Query Language Injection Vulnerability
CSCvs11276	Cisco SD-WAN vManage Information Disclosure Vulnerability
CSCvs99259	Cisco SD-WAN vManage SQL Injection Vulnerabilities

Open Bugs for Cisco SD-WAN Release 19.2.3

Table 8: Open Bugs for Cisco SD-WAN Release 19.2.3

Bug ID	Description
CSCvk78938	Upload of a corrupted serial file can lead to DOS situation
CSCvr89902	vEdge/vBond: default route is not installed in RIB even ARP is learnt and default GW is reachable
CSCvs76326	SDWAN 19.2.1: IPv6 vBond not reachable/UP from vManage when DNS name
CSCvt14398	edge device is not coming UP in vManage GUI, control connection is UP
CSCvt38373	vManage periodic cfgmgr crash
CSCvt63771	vManage generates 'Failed to create input variables' error after feature template edit
CSCvt94743	controller affinity making high CPU to 95% when we have 74k routes
CSCvu21309	BFD sessions flap after multiple control connection flaps to the vSmart.

Bug ID	Description
CSCvu31137	CSR signed certificate fails when vManage configured with timezone America/Sao_Paulo with Cisco PKI
CSCvu35608	Disaster Recovery: Secondary vmanage cluster shows 200,000 vmanages instead of 3 on main dashboard
CSCvu44749	Cluster vManage running 18.4.3 - Messaging server went into waiting state with error corrupt index.
CSCvu44832	failover fails with a nullpointerexception with one vbond down
CSCvu47933	Software initiated - FP core watchdog fail after upgrade to 19.2.2 on vEdge1K
CSCvu54628	Arbitrator NullPointerException@getLocalDataCenterMemberDetails & up GUI status of isolated DC1/DC2
CSCvu58050	SSO broken on 19.2.2
CSCvu58459	A critical customer with 19.2.2, 4 vManage cluster is running into Full GC allocation failure
CSCvu63824	vedge 100 reboots due to vademon crash
CSCvu71411	IKE IPSec: Generate an error message, if strongSwan can't execute rekey CLI
CSCvu78023	" VPN Interface Ethernet PPPoE" template with QoS causing QoS appyied on Dialer's Physical Interface
CSCvu87254	vManage spends 60+ seconds to parse the device template with 500+ variables
CSCvu87957	19.2.2 template push failing for 16.10.2 Cisco IOS XE SD-WAN devices
CSCvu88512	QOS-vEdge2K : not getting desired throughput when sending traffic more than shaping-rate
CSCvu90767	Configuration-db hitting out-of-memory condition in particular scenario with certificates
CSCvu92540	The vManage with 19.2.2 code ran into full GC allocation failure, need RCA and possible fix date
CSCvs70534	vEdge(x86) IPSec+QoS Performance Optimization
CSCvv19652	vEdge crashes with dbgd failed message when running speed test
CSCvv22466	vE5k after upgrade to 19.2.3 isn't form control connections; doesn't able to resolve vBond URL
CSCvv24320	Multiples vEdges crashing with "Software initiated - Daemon 'ftmd' failed"
CSCvv18872	On the NSO of the Cisco vManage, the address of the vSmarts was set as 0.0.0.0
CSCvv22385	Cisco vManage GUI down due to GC Allocation Failure on 19.2.3
CSCvv31065	Unable to edit vbond config via CLI , when control connection breaks from vmanage.

Bug ID	Description
CSCvv36080	Seeing more hVNETs than maximum allowed
CSCvx68246	Changing Config-DB ID/Password from default to non-default on a cluster of more than 3 members

Resolved and Open Bugs for Cisco SD-WAN Release 19.2.2

Resolved Bugs for Cisco SD-WAN Release 19.2.2

Table 9: Resolved Bugs for Cisco SD-WAN Release 19.2.2

Bug ID	Description
CSCvn80264	Certificate Expired Alarm for future date
CSCvq93325	Cloud vEdge crash on bfdmgr_update_sla_mapping
CSCvr20826	OMP Feature Template - advertise ipv6 for vEdge leads to Config Preview Fail
CSCvr39991	vEdge 1000 - FP crash with Zone Based Firewall and IRB config
CSCvr45260	The config on VBond rolls back when the configs are pushed through VManage CLI template
CSCvr51104	vManage cluster GUI SSO fails during the 2nd login attempt using old cookies
CSCvr52320	vEdge2K Crashed with resolvd failed
CSCvr59166	Upgrade from 18.4.1 to 19.2 breaks ip connectivity on TenGe interface in service-side vpn
CSCvr60544	Hardware edge cert (non-SUDI) issues with CSR containing "/" in CN using Enterprise CA
CSCvr60723	Multiple fp-um crashes seen on vEdge cloud on 18.3.5
CSCvr89892	vdaemon crashes after change csr vbond ip
CSCvs02513	vManage should not push "media-type rj45" when user configures speed or duplex
CSCvs08597	Template update pushing wrong interface with UTD NAT statement on Dialer interface
CSCvs14302	vEdge 5k on the 18.4.302 code stops forwarding packets over the 10 Gig interfaces
CSCvs16452	When setting up disaster recovery, multiple nodes in cluster are in bootstrap mode
CSCvs21703	VManage UI Unresponsive or very slow in 18.3.8; Full GC (Allocation Failure)
CSCvs24783	BGP neighbor commands are missing after upgrade from 19.2.0 to 19.2.099
CSCvs27051	idle-timeout is improperly mapped on Cisco XE SD-WAN devices
CSCvs37731	ftmd core observed with forwardingv4v6 regression runs on 19.3

Bug ID	Description
CSCvs42587	Disaster Recovery: vbond registering with secondary vmanage cluster after recovering from failure
CSCvs54073	API call with CSRF token returning wrong content type in header (as JSON when actually plain text)
CSCvs56652	SD-WAN router may delete newly created SA in a specific case
CSCvs56739	template push fails for ipv6 BGP nbr w/ AF enabled on upgrade scenario from 19.2.098
CSCvs68356	vedge-cloud with NAT/cflowd, forwarding performance is degraded by 50%
CSCvs68498	vManage the user ip display the local link ip address in AUDIT LOG
CSCvs68860	vManage templates are NOT available on the Secondary cluster.
CSCvs70200	UL drops observed with packet size greater than 1396 while LTE perf test on ISR1100-4G/6G
CSCvs76815	vEdge - Inbound NAT inside IPsec tunnel not working
CSCvs76945	OMP feature template - Not able to select Advertise ipv6
CSCvs82091	request csr upload fails with lost connection
CSCvs91182	vManage is pushing additional slash '\' with the banner line breaker
CSCvt00521	idle-timeout is improperly mapped on XE-SDWAN
CSCvt06999	16.12.3 ZBFW:Control conn flap error shows up during template push
CSCvt09962	Disaster Recovery: Automatic failure not done when a vbond is down
CSCvt14754	Unable to push template on 19.2 vManage and 16.12 device
CSCvs93379	vManage config preview is timing out on large config.
CSCvt62324	TS/SS: Fail to push template and create admin log from UI. Failed to publish the task on message bus
CSCvs09893	AWS C5 instances of vmanage has very slow response and crashes with "hung_task"

Open Bugs for Cisco SD-WAN Release 19.2.2

Table 10: Open Bugs for Cisco SD-WAN Release 19.2.2

Bug ID	Description
CSCvr35741	DPI statistics database configuration memory increase
CSCvr52733	vedge frequently establishing control connections to the vBond even though it is in equilibrium

Bug ID	Description
CSCvs39434	vManage/vSmart system status(CPU/Memory) stuck at Zero percent
CSCvs42048	vmanage site list built through GUI not respecting syntax
CSCvs45964	Latitude/Longitude inconsistent value in vManage UI 19.2
CSCvs49176	vEdge VRRP fail to receive unit cast traffic over i40evf
CSCvs64187	vManage real time is not pulling more than 4k entries
CSCvs67750	The DR replication is not working when the secondary cluster takes over as primary cluster
CSCvs67769	Can not create vManage user to access disaster recovery other than admin user
CSCvs68870	Deleting vManage Disaster Recovery should not remove the software image from the software repository
CSCvs68879	Alarms/events are NOT replicated to the secondary vManage cluster
CSCvs70746	[Azure] vmanage rebooted on 19.3 with Software initiated - Kernel Panic
CSCvs70961	vmanage gui not accessible as /opt/data is 100% full. App server down
CSCvs71811	Vmanage goes OOM after upgrade to 19.2.1 java.lang.OutOfMemoryError: Java heap space
CSCvs76326	SDWAN 19.2.1: IPv6 vBond not reachable/UP from vManage when DNS name
CSCvs94771	19.2.1 template push failing for 16.10.2 Cisco XE SD-WAN devices
CSCvs95548	vedge-cloud with 19.2.1, 10GE interface on x520 adapter does not work after link is flapped
CSCvs96756	Cloud multi-tenant EMS images not visible on repository after migration from 18.3.x to 19.2.1
CSCvt25691	vManage reloads with reason: Daemon 'cfgmgr' failed
CSCvt31109	OMP advertises aggregate route with components from RIB even if "no advertise <protocol>" configured
CSCvt64600	Top applications UI : Y axis (usage) not shown properly
CSCvt66337	Shaping rate in ISR1100-4G not working properly for TCP traffic
CSCvt95983	vEdge Cloud: vEdge on Azure may go into a bootloop state after an upgrade from 18.4.302 to 19.2.2
CSCvs83533	Vedge 1k running 19.2.1 constantly reboots with the reason "USB controller disabled or enabled"

Resolved and Open Bugs for Cisco SD-WAN Release 19.2.1

Resolved Bugs for Cisco SD-WAN Release 19.2.1

Table 11: Resolved Bugs for Cisco SD-WAN Release 19.2.1

Bug ID	Description
CSCvk79895	callin keyword issues for feature template for dialer interfaces
CSCvr35176	Device is crashing constantly when TCP optimization is enabled.
CSCvr45260	The config on VBond rolls back when the configs are pushed through VManage CLI template
CSCvr51104	vManage cluster GUI SSO fails during the 2nd login attempt using old cookies
CSCvr84372	VPN0 interface won't come up on vbond KVM instance on RHEL7.5
CSCvs07507	vManage config preview is timing out when we have a large policy with more than 750 sequences
CSCvs08871	vManage 19.2.099 shows Invalid value if GPS Lat/Long is float
CSCvs14302	vEdge 5k on the 18.4.302 code stops forwarding packets over the 10 Gig interfaces
CSCvs16700	vEdge iPerf speed test -r option is not working as expected
CSCvs24783	BGP neighbor commands are missing after upgrade from 19.2.0 to 19.2.099
CSCvs46366	DNS configurations are not pushed to the XE-SDWAN device properly
CSCvp21016	vEdge FTMD crash
CSCvp83386	- /var/crash/kernel_panic is empty - show reboot history says "Software initiated - Kernel Panic"
CSCvq75021	vEdge 2000 - ZBFW counters stuck after stress tests
CSCvr12422	vEdge5K does not forward all fragments on service side
CSCvn52516	Guest OS type for vNIC Adapter Type to Deploy Controllers in VMWARE
CSCvr00012	vEdge100b appears to be leaking memory in sysmgrd
CSCvn53200	vrrp virtual ip not able to ping from host on ESXI vedge x86 with E1000, vmxnet3 interface I/O

Open Bugs for Cisco SD-WAN Release 19.2.1

Table 12: Open Bugs for Cisco SD-WAN Release 19.2.1

Caveat ID Number	Description
CSCvp68729	ISR1100-6G, vedge-5000 Copper SFP OIR is not working.

Caveat ID Number	Description
CSCvr35176	Device is crashing constantly when TCP optimization is enabled.
CSCvr52680	Stale vManage certs present on the vManage after we factory reset it and install a new cert
CSCvr52733	vedge frequently establishing control connections to the vBond even though it is in equilibrium
CSCvr82826	Status: Success should only be posted after the task has run to completion.
CSCvr84372	VPN0 interface won't come up on vbond KVM instance on RHEL7.5
CSCvs08748	VRRP issue on vEdge 5k for 10G physical interface on 18.4.302 and 19.2.097.
CSCvs16700	vEdge iPerf speed test -r option is not working as expected
CSCvs26265	Data collection is slow on vManage after enabling vAnalytics on 19.2.097
CSCvs45964	Latitude/Longitude inconsistent value in vManage UI 19.2
CSCvs48327	ISR1100-4G, ISR1100-6G Fixed speed 100/10 full duplex config are not supported on RJ45 ports.
CSCvs49176	vEdge VRRP fail to receive unit cast traffic over i40evf
CSCvs56739	template push fails for ipv6 BGP nbr w/ AF enabled on upgrade scenario
CSCvs94771	19.2.1 template push failing for 16.10.2 Cisco XE SD-WAN devices

Resolved Bugs for Cisco SD-WAN Release 19.2.099

Table 13: Resolved Bugs for Cisco SD-WAN Release 19.2.099

Bug ID	Description
CSCvp96887	Failed to attach template to Cisco XE SDWAN Rtr if qos-map name changed after policy-map is attached
CSCvq10160	Cellular IP is getting reset when primary transport interface Gi0/0/0 is shutdown.
CSCvq61835	interface cant be moved from vrf 0 to service vrf when it has ip address
CSCvq70071	flow data is not populated into /tmp/xml/fnf
CSCvq97954	Cellular interface doesn't get an IP address when brought up through the pnp workflow
CSCvr13244	19.2.0 regression: Can not configure NTP on SD-WAN and specify source interface in VPN
CSCvr15012	fman-fp keeps on crashing after attach app-route policy with app-family
CSCvr18082	xe-sdwan omp aggregate-only does not suppress component routes sometimes

Bug ID	Description
CSCvr35568	CPP crash with Packet Duplication enabled on path failover with XE SDWAN router
CSCvr52767	microloops because of redistribution OMP<>OSPF external with DN-bit are happening on IOS-XE SD-WAN
CSCvk79895	callin keyword issues for feature template for dialer interfaces
CSCvn02180	confd died on upgrading from 18.3.X to 18.4 on 100b
CSCvp13833	snmp-server trap-source configuration is not generated for Cisco XE SD-WAN Router by vManage
CSCvp69688	'tcp adjust-mss' mapping fails for XE SDWAN router on service-side IPSec template
CSCvp92554	duplex mode shows half duplex while setting "no autonegotiate"
CSCvq26184	Enhancement for Vmanage Config Diff feature to work correctly on xe-sdwan CLI Templates.
CSCvq45303	remove tloc-list or export-to from control policy removes tloc-list or export-to from other sequence
CSCvq46947	vedge directed-broadcast should forward as 255.255.255.255 to match xe-sdwan and cisco behavior
CSCvq67476	ikev2 dpd retransmit always 1s and fails after one retry with "giving up after 1 retransmits"
CSCvq93904	With disaster recovery paused vmanage does not allow controllers to be upgraded from GUI
CSCvq95995	Getsockopt errors on vmanage console after upgrading vmanage cluster to 19.2.0
CSCvq97724	vAnalytics - Launch vanalytics not working in vmanage UI
CSCvq99226	Static NAT Optional Setting does not persist
CSCvr13605	API Try it out option on the Swagger UI(/apidocs) is stuck on 19.2 vmanage
CSCvr15242	omp routes redistributed into ospf are advertised back into omp causing a routing loop
CSCvr19231	vEdge is using ip addresses outside of the natpool range
CSCvr19249	vEdge performs NAT translation to public source port 0 or overlaps ports when all ports exhausted
CSCvr22812	Vmanage pushes incorrect config for xe-sdwan DNS under management vrf (vpn 512)
CSCvr30029	Cisco XE SD-WAN device configures IPv6 BGP neighbor under both IPv4 and IPv6 address-family
CSCvr40290	Unable to push CLI template from the vManage when the NTP source interface is configured.

Bug ID	Description
CSCvr41975	CLI template based BGP configuration does not work with update-source interface
CSCvr45907	IPSEC tunnel source IP is not updated when WAN IP changes.
CSCvr20753	Fix handling of leading 0's in Cisco XE SD-WAN device certificate serial numbers
CSCvm84963	Zscaler tunnel failure when NAT selects public port 0

Resolved Bugs for Cisco SD-WAN Release 19.2.097

Table 14: Resolved Bugs for Cisco SD-WAN Release 19.2.097

Bug ID	Description
CSCvn24727	Large number of out-of-order packets seen with vEdge5k and vEdge-Cloud
CSCvq09767	core fp-um crash on vEdgecloud running 18.3.5. fp_hw_x86_pkt_remove_header
CSCvq12913	vEdge1000 crashed even after applying the 18.4.101 ES image

Resolved and Open Bugs for Cisco SD-WAN Release 19.2.0

Resolved Bugs for Cisco SD-WAN Release 19.2.0

Table 15: Resolved Bugs for Cisco SD-WAN Release 19.2.0

Bug ID	Description
CSCvm97332	config commit operation fails on ISRv on 5406 with error ext2_lookup:deleted inode referenced
CSCvn76615	source-interface mapping is missing in vmanage for tacacs and radius server group.
CSCvo03831	Unable to load Device->Template page
CSCvo68578	vManage export CSV file of feature templates(not CLI templates) with 2+ devices reordering values
CSCvo69041	SVM: server config file is empty
CSCvp13167	vEdge5000: control connection stuck in "Challenge" phase with TPM lockup
CSCvp44069	"ip address negotiated" configuration is not being pushed from a vManage running the 19.1.0 code
CSCvp44488	vManage: VPN Interface Ethernet template is not accepting 10ge as interface name
CSCvp70217	SVM: NMS app-server fails to start
CSCvp75433	Email notification - host name shows as N/A for all alerts, but alarm has the hostname.
CSCvp82758	Edit vmanage from local host to ip before cluster addition failing

Bug ID	Description
CSCvp96612	snmp traps on vedge not egressing out of the snmp source interface configured
CSCvq54726	continuous nat-pool exhausted failure leads to map-db leak
CSCvp30369	NAT translation is not happening for return traffic
CSCvp60289	ftmd process crash on vEdge router
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

Open Bugs for Cisco SD-WAN Release 19.2.0

Table 16: Open Bugs for Cisco SD-WAN Release 19.2.0

Bug ID	Description
CSCvn24727	Large number of out-of-order packets seen with vEdge5k and vEdge-Cloud
CSCvo12826	Setting "Collect admin-tech on reboot" to On in System Feature template does not work for Cisco XE SD-WAN devices
CSCvp12510	TAIL-F: Passwords more than 32 characters in length fail when doing push from vManage (CSCvo93386)
CSCvp71933	DR: drconsul process failed to start on one vmanage in secondary cluster
CSCvq48367	Traffic does not resume after we change speed on SFP Interfaces.
CSCvq49247	line vty config getting changed to transport input none after loading from ciscosdwan.cfg
CSCvq52992	after device reboot from vmanage, vsmart boots up to shell prompt
CSCvq56780	Cisco XE SD-WAN ISR system-report files under bootflash/core need to picked up in admin-tech-from-vmanage
CSCvq68947	Prefix lists from aci not updated due to template lock
CSCvs30171	Enterprise Certs lost when upgraded from 18.4.302 to 19.2.099
CSCvv42937	No date and time info in the syslog payload

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
- Deferral Notices
- Cisco Bulletins