

Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Fuji 16.9.x

First Published: 2018-07-25

About Cisco ASR 1000 Series Aggregation Services Routers



Note Explore the [Content Hub](#), the all new portal that offers an enhanced product documentation experience.

- Use faceted search to locate content that is most relevant to you.
- Create customized PDFs for ready reference.
- Benefit from context-based recommendations.

Get started with the Content Hub at content.cisco.com to craft a personalized documentation experience.

Do provide feedback about your experience with the Content Hub.

Cisco ASR 1000 Series Aggregation Services Routers are Cisco routers deployed as managed service provider routers, enterprise edge routers, and service provider edge routers. These routers use an innovative and powerful hardware processor technology known as the Cisco QuantumFlow Processor.

Cisco ASR 1000 Series Aggregation Services Routers run the Cisco IOS XE software and introduce a distributed software architecture that moves many operating system responsibilities out of the IOS process. In this architecture, Cisco IOS, which was previously responsible for almost all of the internal software processes, now runs as one of many Cisco IOS XE processes while allowing other Cisco IOS XE processes to share responsibility for running the router.

ROMmon Release Requirements

For more information on ROMmon support for Route Processors (RPs), Embedded Services Processors (ESPs), Modular Interface Processors (MIPs), and Shared Port Adapter Interface Processors (SIPs) on Cisco ASR 1000 Series Aggregation Services Routers, see <https://www.cisco.com/c/en/us/td/docs/routers/asr1000/rommon/asr1000-rommon-upg-guide.html>.

New Features and Important Notes

New and Changed Information

The following sections list the new hardware and software features that are supported on the Cisco ASR 1000 Series Aggregation Services Routers.

New Hardware Features in Cisco IOS XE Fuji 16.9.1

The following are the new hardware features introduced in Cisco ASR 1000 Series Aggregation Services Routers for Cisco IOS XE Fuji 16.9.1.

EPA-QSFP-1X100GE

For detailed information, see the following Cisco documents:

https://www.cisco.com/c/en/us/td/docs/interfaces_modules/shared_port_adapters/install_upgrade/ASR1000/asr_sip_spa_hw.html

https://www.cisco.com/c/en/us/td/docs/routers/asr1000/install/guide/modular_linecard/asr1_mlc_hig/mlc_asr1_overview.html

New Software Features in Cisco IOS XE Fuji 16.9.1

The following are the new software features introduced in Cisco ASR 1000 Series Aggregation Services Routers for Cisco IOS XE Fuji 16.9.1.

Address Range command for Object Group

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_zbf/configuration/xe-16-9/sec-data-zbf-xe-16-9-book/sec-zbf-ogacl.html

BNG: Dumping event-traces along with the crash

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/isg/configuration/xe-16-9/isg-xe-16-9-book/isg-debug-enh.html>

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/isg/command/isg-cr-book/isg_m1.html

Candidate Configuration

A temporary configuration that can be modified without changing running configuration. You can then choose when to update the configuration of the device with the candidate configuration, by committing and confirming the candidate configuration. For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b_169_programmability_cg/configuring_yang_datamodel.html

CCE Serviceability: TCAM usage troubleshooting improvements

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/security/s1/sec-s1-cr-book/sec-cr-s5.html>

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr/command/ipaddr-cr-book/ipaddr-s1.html>

CPAK-100G-ER4L support

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/routers/asr1000/install/guide/1001HX_1002HX/b_ASR1001HX-1002HX_HIG.html

https://www.cisco.com/c/en/us/td/docs/interfaces_modules/shared_port_adapters/install_upgrade/ASR1000/asr_sip_spa_hw.html

Add PHY firmware update

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/routers/access/interfaces/NIM/software/configuration/guide/vdsl2-and-ads12-nim.html>

FlexVPN AnyConnect Profile Download

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_ike2vpn/configuration/xe-16-9/sec-flex-vpn-xe-16-9-book/sec-cfg-flex-serv.html

IS-IS Event Trace Improvements

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios/iproute_isis/command/reference/irs_book/irs_is2.html

IS-IS: Improvements to - Show tech isis

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios/iproute_isis/command/reference/irs_book/irs_is2.html

IS-IS: Provide Per-Interface statistics for CLNS or IS-IS traffic

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios/iproute_isis/command/reference/irs_book/irs_is2.html

L2 EVPN Multihoming

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l2_vpns/configuration/xe-16-9/mp-l2-vpns-xe-16-9-book/evpn-multihoming.html

OSPFv2 -Strict SPF Support

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-9/segrt-xe-16-9-book/ospfv2-segment-routing-strict-spf.html

PKI Event-Trace Implementation

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ion-en_US/ios-xml/ios/security/m1/sec-m1-cr-book.html

https://www.cisco.com/c/en/us/td/docs/ion-en_US/ios-xml/ios/security/s1/sec-s1-cr-book.html

Secure Storage of encryption keys and passwords

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_cfg/configuration/xs-16-9/sec-usr-cfg-xe-16-9-book/sec-usr-cfg-configure-secure-storage.html

show crypto pki certificate

For detailed information, see the following Cisco document:

<https://www-cisco.com/c/en/us/td/docs/ios-xml/ios/security/s1/sec-s1-cr-book.html>

Macsec and DLC Support

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/macsec/configuration/xs-16-9/macsec-xe-16-9-book/macsec-smart-licensing.html>

Support for inter-AP Roaming Between APs of Mixed Aggregation Type

Roaming of clients between access points of mixed aggregation, such as L2 and Ethernet over Generic Routing Encapsulation (EoGRE) interfaces with DHCP triggers, is supported.

Web UI

Web User Interface—Supports an embedded Graphical User Interface based device-management tool that provides the ability to provision the device, simplifies device deployment and manageability, and enhances user experience. The following features are supported on Web User Interface:

- Day Zero Enhancement
- Open Shortest Path First (OSPF)
- Snort IPS Enhancement

YANG Data Models

For the list of Cisco IOS XE YANG models available with this release, navigate to <https://github.com/YangModels/byang/tree/master/vendor/cisco/xs-16-9>

Revision statements embedded in the YANG files indicate if there has been a model revision. The README.md file in the same github location highlights changes that have been made in the release.

Important Notes

The following sections contain important notes about Cisco ASR 1000 Series Aggregation Services Routers.

Encrypted Traffic Analytics Records not Exported After Reload

When the router is reloaded with a large configuration, which generates many messages for initializing features in the data plane, Encrypted Traffic Analytics (ETA) records may not be exported. This occurs if the **inactive timeout** command is included in the configuration.

Workaround

Remove the **inactive timeout** command from the ETA configuration. After reloading the router, you can add the **inactive timeout** command to the configuration.

Deferrals

Cisco IOS software images are subject to deferral. We recommend that you view the deferral notices at the following location to determine whether your software release is affected:

http://www.cisco.com/en/US/products/products_security_advisories_listing.html

Field Notices and Bulletins

- Field Notices—We recommend that you view the field notices to determine whether your software or hardware platforms are affected. You can find the field notices at the following location:

http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html

- Bulletins—You can find bulletins at the following location:

http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod_literature.html

Caveats

Open and Resolved Bugs

The open and resolved bugs for a release are accessible through the [Cisco Bug Search Tool](#). This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products. Within the [Cisco Bug Search Tool](#), each bug is given a unique identifier (ID) with a pattern of CSCxxNNNNN, where x is any letter (a-z) and N is any number (0-9). The bug IDs are frequently referenced in Cisco documentation, such as Security Advisories, Field Notices and other Cisco support documents. Technical Assistance Center (TAC) engineers or other Cisco staff can also provide you with the ID for a specific bug. The [Cisco Bug Search Tool](#) enables you to filter the bugs so that you only see those in which you are interested.

In addition to being able to search for a specific bug ID, or for all bugs in a product and release, you can filter the open and/or resolved bugs by one or more of the following criteria:

- Last modified date
- Status, such as fixed (resolved) or open
- Severity
- Support cases

You can save searches that you perform frequently. You can also bookmark the URL for a search and email the URL for those search results.

Using the Cisco Bug Search Tool

For more information about how to use the [Cisco Bug Search Tool](#), including how to set email alerts for bugs and to save bugs and searches, see [Bug Search Tool Help and FAQ](#).

Before You Begin

You must have a Cisco.com account to log in and access the [Cisco Bug Search Tool](#). If you do not have one, you can register for an account.

Procedure

-
- Step 1** In your browser, navigate to the [Cisco Bug Search Tool](#).
- Step 2** If you are redirected to a Log In page, enter your registered Cisco.com username and password and then, click Log In.
- Step 3** To search for a specific bug, enter the bug ID in the Search For field and press Enter.
- Step 4** To search for bugs related to a specific software release, do the following:
- In the Product field, choose Series/Model from the drop-down list and then enter the product name in the text field. If you begin to type the product name, the [Cisco Bug Search Tool](#) provides you with a drop-down list of the top ten matches. If you do not see this product listed, continue typing to narrow the search results.
 - In the Releases field, enter the release for which you want to see bugs.
The [Cisco Bug Search Tool](#) displays a preview of the results of your search below your search criteria.
- Step 5** To see more content about a specific bug, you can do the following:
- Mouse over a bug in the preview to display a pop-up with more information about that bug.
 - Click on the hyperlinked bug headline to open a page with the detailed bug information.
- Step 6** To restrict the results of a search, choose from one or more of the following filters:

Filter	Description
Modified Date	A predefined date range, such as last week or last six months.
Status	A specific type of bug, such as open or fixed.
Severity	The bug severity level as defined by Cisco. For definitions of the bug severity levels, see Bug Search Tool Help and FAQ .
Rating	The rating assigned to the bug by users of the Cisco Bug Search Tool .
Support Cases	Whether a support case has been opened or not.

Your search results update when you choose a filter.

Caveats in Cisco IOS XE Fuji Release 16.9.x

Resolved Caveats—Cisco IOS XE Fuji Release 16.9.8

All resolved caveats for this release are available in the [Cisco Bug Search Tool](#).

Caveat ID Number	Description
CSCvt53563	Cisco IOS XE Software NETCONF and RESTCONF Authentication Bypass Vulnerability
CSCvw25564	Cisco IOS and IOS XE Software IKEv2 AutoReconnect Feature Denial of Service Vulnerability
CSCvx41294	High CPU usage caused by "\"TCP Timer\" process
CSCvv12527	Crash in SNMP Engine process while polling chassis id in lldp
CSCvv78028	Cisco IOS XE Software Zone-Based Policy Firewall ICMP and UDP Inspection Vulnerability
CSCvx16081	Cisco IOS XE Software H.323 Application Level Gateway Bypass Vulnerability
CSCvx37176	Cisco IOS XE Software Rate Limiting Network Address Translation Denial of Service Vulnerability

Open Caveats—Cisco IOS XE Fuji Release 16.9.8

There are no open caveats in this release.

Resolved Caveats—Cisco IOS XE Fuji Release 16.9.7

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Table 1: Resolved Caveats—Cisco IOS XE Fuji Release 16.9.7

Caveat ID Number	Description
CSCuv97577	Mishandling of dsmpSession pointer causes a crash
CSCvr50406	Cisco IOS XE IOx GuestShell USB SSD Namespace Protection Privilege Escalation Vulnerability
CSCvr93458	Hub router crashed when run test_mpol_policy_qos_policy_template testcase
CSCvt70639	Device reload due to tunnel flapping
CSCvt74346	Router may unexpectedly be reloaded when collecting data from the interface using telemetry/Netconf
CSCvu19733	Evaluation of CVE-2020-11868 for IOS
CSCvv02486	Random MPLS-TE tunnels with explicit-path stay down after egress interface is bounced

Caveat ID Number	Description
CSCvv26538	Crash due to a NULL pointer while bringing down PPPoE sessions
CSCvv51048	Memory leak "AAA SESS ATTR"
CSCvv58056	ACLs may be partially loaded into hardware resulting in unexpected drop or permit
CSCvv84345	ASR 1000 Series Routers Crash on configuring IP NAT inside source list under VRF
CSCvv88621	GETVPN: All GM will crash when Primary KS recovers its COOP role after network outage
CSCvv99800	ASR 1000 Series Routers FMANFP crashes during bootup with memory corruption
CSCvw06719	"platform ipsec reassemble transit" tail-drops unencrypted IPv4 Fragments with specific payload
CSCvw11902	Passive FTP doesn't work with NAT
CSCvw14836	ISR router running 16.9.6 crashes authenticating crypto certificate
CSCvw34157	APPNAV CFT crashes
CSCvw48800	Unable to transfer 1500 byte IP packet when using BRI bundled multilink
CSCvw56517	LMR Unable to hear first seconds of audio
CSCvw68171	Duplicate Bytes & Packet when Q in Q is configured

Open Caveats—Cisco IOS XE Fuji Release 16.9.7

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the Open Bug Search.

Table 2: Resolved Caveats—Cisco IOS XE Fuji Release 16.9.7

Caveat ID Number	Description
CSCvm05934	RSA Key size > 2048 may cause crash
CSCvt66541	DNAC Wolverine - Crypto PKI-CRL-IO_1 process crashed in crypto_send_pki_request,crypto_crl_io_proc
CSCvu57706	CUBE fails to send calls with below error after updating IOS to 16.9.5 Error (Resource busy)
CSCvv03229	Crash in sre_dp_traverse_dfa_legacy as SIP invite messages crosses a GRE Tunnel
CSCvv36247	Memory Leak in MallocLite / Crypto IKMP
CSCvw11607	Crash in DSP causing an mcpc-c-lc-ms core file
CSCvw89147	Crash at the moment of calculating tcp header

Resolved Caveats—Cisco IOS XE Fuji Release 16.9.6

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Table 3: Resolved Caveats—Cisco IOS XE Fuji Release 16.9.6

Caveat ID Number	Description
CSCuz84374	SPA modules on ASR1002-X/ASR1001-X does not get recognized under show platform
CSCvh24730	PfRv3: Crash while Printing the Same TCA Message
CSCvi22263	Crash when IOS is adapting shaping with Adaptive QoS over DMVPN configured
CSCvi67613	Protocol type for GRE header doesn't work consistently with "cts sgt inline" enable over auto-tunnel
CSCvm40582	Crash when entering username with aaa common-criteria policy password
CSCvm82184	Memory leak under Key Manager (keyman) process
CSCvn02456	Router crashes when the calls doesn't establish after making 2 calls when we set "max-conn 2"
CSCvn31903	ISR4K CUBE send first register with wrong ip address after reload - SIP-UA
CSCvn33902	CPU Spike seen due to "VTEMPLATE BKG OW Process" when disconnecting PPP users 100 session/sec rate
CSCvn68893	ASR1k Process = TUN ETHER Thread crash
CSCvp46937	Sync failure and hung calls observed on standby
CSCvp88044	Performance Monitor crash
CSCvq16951	ASR1K ACTIVE ROUTER NAT ENTRIES SPIKE ISSUE
CSCvq39840	CiscoFlashFile - Get-Next request takes longer time for last file on directory.
CSCvq43004	Need to check qfp ucode crash with RTCP traffic - chunk memory corruption in RTCP path
CSCvq91046	ASR1k crash in NAT code when processing PPTP traffic
CSCvr10592	After putting caller on hold - caller call leg tx packets are increasing in CUBE
CSCvr28935	IOS crash in DHCPd Receive with Unnumbered interfaces
CSCvr42504	ping is not working on port-channel after router reload
CSCvr66463	With CRL fetch failed, stuck at Failed to send the request. There is another request in progress
CSCvr75640	LNS crash with Segmentation fault(11) in L2TP mgmt daemon
CSCvr76593	Memory leak in CC-API_VCM and CCSIP_SPI_CONTROL

Caveat ID Number	Description
CSCvr87906	ISR4461: Large un-fragmented IPSEC packets cause router to crash
CSCvr89957	CFT crashed frequently
CSCvs00961	Memory leak under CCSIP_UDP_SOCKET / MallocLite
CSCvs04194	Process = Exec crash seen on dmap longevity testbed with clear cry sa peer several times
CSCvs05043	ESP40 crash in CGN mode after apply "ip nat setting mode cgn" and "no shut" interface
CSCvs07609	Portchannel stats not working on ASR1002-HX
CSCvs08368	FlexVPN Hub Memory Leak in AAA process when IKEv2 sessions are being established
CSCvs12349	NeMo tunnel is down after cellular interface config is overwritten
CSCvs28073	IOS-XE device has memory leak in linux_iosd-imag
CSCvs29412	x509 SSH authentication incorrect UPN value selected
CSCvs42075	crash with shared-line command
CSCvs46329	QinQ subinterface counters not accounted properly
CSCvs46847	RTP/SRTP interworking fails when 180 and 183 have different to-tag
CSCvs55066	ISR4K only: MGCP status remains Down and does not register with CUCM after a reboot or power cycle
CSCvs59402	Random IPSEC drops on ESP200 with esp-gcm transform set
CSCvs60195	ASR1K ucode crash after too many locks in ZBF pair setup
CSCvs63606	Ping fails on hundred gig primary interface with FRR configured though MPLS traffic is not impacted
CSCvs70206	CUBE DNS cache clear should be limited only to the matched connection id
CSCvs75958	ISR4331/K9 Dialer cannot make calls suddenly
CSCvs85642	ISR G3 router crashes when rtp-nte DTMF packet arrives at MTP + BDI
CSCvs86573	Connect message is never forwarded to the calling side
CSCvs92848	Crash due to DHCP relay
CSCvt01186	Interface does down when "l2vpn xconnect" command is removed
CSCvt02534	ISR4K Unexpectedly Reboots with CENT-BR-0
CSCvt04814	CPP crash due to a long QoS Policy and Class name

Caveat ID Number	Description
CSCvt08178	CUBE crashes when SIP call is forked with active SIP KPML subscription
CSCvt10151	Multiple Cisco Products Snort HTTP Detection Engine File Policy Bypass Vulnerability UTD
CSCvt19873	ASR1k:Router stops forwarding traffic with MPLS TE & FRR
CSCvt21373	unexpected reload in CPP ucode forced by nat 514 .
CSCvt33018	MACsec 128/256 XPN on 40g/100g, stop passing traffic for one of AN and interface link flap seen
CSCvt33028	Part of double encapsulated frames dropped with TunnelDecapTooManyTimes code reason
CSCvt33226	ISR4K CUBEs - call monitor crashed with Process = AFW_application_process
CSCvt33799	Virtual address not reachable: "mac:0000:0c07:xxxx download to DP failed" for HSRP / VRRP over BDI.
CSCvt36887	ASR1002-hx crashing with IPSEC+QoS+DPI+FNF+NAT+ZBFW profile - half open list corrupted
CSCvt49705	Device Crash observed with NAT and once there is traffic from outside
CSCvt51433	Process sessmgrd crash due to clear radius sg-stats command.
CSCvt52825	Memory leak in SCCP TLS Client on unexpected deregister event
CSCvt61876	IOS-XE FW feature crashes while inspecting TCP packet with incorrect session packet state.
CSCvt65588	FlexVPN IKEv2 Tunnel route removed after establishing new IKEv2 SA to another peer
CSCvt73592	missing/corrupt IOS-XE PKSC10 format
CSCvt76844	ASR1002-X ESP crash in multikey_hash_ager_tw_timer_to()
CSCvt85954	IWAN routers ISR4K unexpected reload multiple times
CSCvt89337	Incorrect Source IP when resolving DNS
CSCvt90424	CRC increasing on down int Te0/0/20
CSCvt91720	router see http wsma request as coming from 192.168.1.5
CSCvt99552	CUBE/LGW: Certificate Unknown Error is observed when cn-san-validate server is configured
CSCvu01690	CPUHOGS produced while executing the command - client fireall access-list ?
CSCvu04665	CUBE keeps sending REINVITES to peer legs leading to high CPU and eventually crashes.

Caveat ID Number	Description
CSCvu11115	IOS-XE MTP Fails to Interwork DTMF RFC2833 from Payload 100 to Payload 101
CSCvu11993	ZBFW drops selfzone generated packets from CPU to host with invalid reason in 16.12.x routers
CSCvu14823	Crash on IOS-XE router when authenticating expired IPsec peer certificate
CSCvu20470	Memory leak in STUN/MallocLite on ISRG2 CUBE/SIP GW routers leading to memory exhaustion over time.
CSCvu27953	Crash due to a segmentation fault in the "IPsec background proc" process
CSCvu34009	Calls going through T1 are rejected with "no dsps found" Analog/TDM Hairpin calls
CSCvu40093	Crash when tearing down a PPPoE client session
CSCvu43248	%IP-4-DUPADDR: Duplicate address issue at NAT-HSRP ISR4k router
CSCvu50302	Survivability.tcl recovery procedure fails on Ingress GW of CCE call flow
CSCvu52218	Router crashes frequently on NBAR
CSCvu77962	ASR1K / 16.9.4c / MKA control traffic not forwarded out on L2VPN
CSCvu87786	CUBE Segmentation Fault @ sipSPIFreeOneSCB due to corrupt ccb
CSCvu92620	Secure key agent memory leak in 16.9 and only in 16.9
CSCvu94010	Catalyst 9300 Active stack switch crash while applying the CTS configuration
CSCvv14026	Unexpected Reload after running 'show voice dsp' command while an ISDN Call Disconnects
CSCvv20380	Removing and Adding Bulk ACL leads to Tracebacks and Error-Objects

Open Caveats—Cisco IOS XE Fuji Release 16.9.6

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the Open Bug Search.

Table 4: Resolved Caveats—Cisco IOS XE Fuji Release 16.9.6

Caveat ID Number	Description
CSCve89377	RFGW-10 Sup Moka CRC Causes Slot 3-10 Linecard Restarts
CSCvi40405	MMA/FME feature enhancement for Elephant Flow
CSCvm94970	[UniScale]Crash seen on csr1k during NAT44 hsl scale test when clearing max NAT translations
CSCvu16200	Router May Crash When a SSH session is Closed After a TACACS Configuration Change (Part 2)

Caveat ID Number	Description
CSCvu35559	Memory corruption crash when device is booting up
CSCvu57706	CUBE fails to send calls with below error after updating IOS to 16.9.5 Error (Resource busy)
CSCvv03229	Crash in sre_dp_traverse_dfa_legacy as SIP invite messages crosses a GRE Tunnel
CSCvv05364	ASR1001-HX, CCP crash due to invalid address accessed by DTL
CSCvv23306	IOS-XE ipsec EULA prompt may block crypto process indefinitely
CSCvv26538	Crash due to a NULL pointer while bringing down PPPoE sessions.

Resolved Caveats—Cisco IOS XE Fuji Release 16.9.5

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Table 5: Resolved Caveats—Cisco IOS XE Fuji Release 16.9.5

Caveat ID Number	Description
CSCvj29514	CME: Toll fraud app not automatically trusting traffic from phones
CSCvn76837	DMVPN Phase 2 shortcut triggered from a spoke behind PAT may end up in stuck DNX state
CSCvq44603	ISR 4k Reloads Unexpectedly, Crashing in the "IP NAT Ager" Process
CSCvq65366	Cube might crash when sending a SIP message over TLS
CSCvq80928	CME/BE4K SNR: Crash when config changes are made while SNR call is active
CSCvr17169	qfp ucode crash with media monitor
CSCvr18570	When user cancel Call Forward All from the analog phone, user can't hear the confirmation tone
CSCvr22417	No video on Calls from ON prem to BroadCloud
CSCvr24316	Router crashes due to Segmentation Fault when 'ccb' gives a NULL Pointer
CSCvr31188	GETVPN gikev2 Secondary KS doesn't push new policy after merging split condition
CSCvr33415	Router may crash unexpectedly with Segmentation fault(11), Process = DSMP
CSCvr39932	IPSEC install failed IPSEC_PAL_SA shows "unexpected number of parents"
CSCvr42310	Removing and adding ACL to ASR1K is causing Tracebacks and download to DP failed errors
CSCvr48349	ESP ucode crashed when running NAT with bpa (CGN)
CSCvr51860	Observed Traceback with SRTP-RTP call after hold/resume

Caveat ID Number	Description
CSCvr57565	MGCP Calls with SRTP fail to connect with Cause Value=47 due to T.38 calls
CSCvr58230	While signalling forking the CUBE is not Sending Re-INVITE for T.38 with the Authorized header.
CSCvr61217	GetVPN-ISR4461// Getvpn traffic is failing with Transport mode with all the versions.
CSCvr61879	"static ip addresses not configured for the list" message
CSCvr66754	CME-ISR4K: BLF working Inconsistently on 16.09.03 [Bad code fix was done in CSCvk49797]
CSCvr76534	ISR 4000 : Crash seen at Process Exec
CSCvr80706	ASR 1006 tunnels are flapping CPP crash
CSCvr90926	CUBE is updating the resolved IP only after the REGISTER expires
CSCvr96597	IOS-XE crash after doing a SCEP enrollment
CSCvr99034	ISR 4K router crash during updating the OpenDNS bypass whitelist
CSCvs13960	IWAN High CPU and Memory
CSCvs29535	IWAN crash related to DCA channel
CSCvs47682	Router crashed on removing trustpoint on dspfarm profile
CSCvq81200	Incorrect counters on ASR 1000-2T+20X1GE

Open Caveats—Cisco IOS XE Fuji Release 16.9.5

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the Open Bug Search.

Table 6: Open Caveats—Cisco IOS XE Fuji Release 16.9.5

Caveat ID Number	Description
CSCve89377	REFW-10 Sup Moka CRC Causes Slot 3-10 Linecard Restarts
CSCvn02456	Router crashes when the calls doesn't establish after making 2 calls when we set "max-conn 2"
CSCvp45666	Kernel crash in netfilter
CSCvq39840	CiscoFlashFile - Get-Next request takes longer time for last file on directory.
CSCvq91046	ASR1k crash in NAT code when processing PPTP traffic
CSCvr28935	IOS crash in DHCPd Receive with Unnumbered interfaces
CSCvr75640	LNS crash with Segmentation fault(11) in L2TP mgmt daemon
CSCvr76593	Memory leak in CC-API_VCM and CCSIP_SPI_CONTROL

Caveat ID Number	Description
CSCvs00961	Memory leak under CCSIP_UDP_SOCKET / MallocLite
CSCvs04194	Process = Exec crash seen on dmap longevity testbed with clear cry sa peer several times
CSCvs07609	Portchannel stats not working on ASR1002-HX
CSCvs60195	ASR1K ucode crash after too many locks in ZBF pair setup

Resolved Caveats—Cisco IOS XE Fuji Release 16.9.4

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Table 7: Resolved Caveats—Cisco IOS XE Fuji Release 16.9.4

Caveat ID Number	Description
CSCtf93027	sup 720 crashes while executing show file desc continuously
CSCva76745	show running-config format with DHCP pool results in a reload
CSCvc78492	DMVPN : IOS-XE - Unable to pass traffic if spoke to spoke fails to build in phase 2
CSCvd67904	4500X does not run dot1x when a laptop wakes from sleep mode
CSCvg40933	MoH not heard when conf initiator drops from conference [specifically when Holdee xfers the call]
CSCvg68226	Excluding cisco802TapMIB or ciscoTap2MIB should not require Lawful Intercept licence
CSCvg83770	Traceback seen on COOP KS
CSCvh11088	Crash on OPF_CSR32_OPF_LOGIC_ERR_LEAF_INT__INT_START_OF_BURST_MARKER_ERR
CSCvh79264	Change the punt cause of packets whose destination is virtual IP from SUBNET_BCAST to FOR_US
CSCvh92659	BFD flaps everytime with dynamic tunnel creation in DMVPN
CSCvi15955	Call failure after Bye-Also blind transfer from CUE requires failure indication
CSCvi60411	SNR call flows hardening with Media Renegotiate Flow
CSCvi86071	Crash seen after configuring SCP path under archive
CSCvi97051	Video struck in 8865 /45 when initiate conference from video enabled phone
CSCvj17326	isr44xx crashes in o2_cavm_pci_unlock when forwarding large packets for VPLS
CSCvj28921	High CPU due to Alignment Corrections - SMEF & IWAN

Caveat ID Number	Description
CSCvj58345	Xcoder from VCC Offer All not deallocated when call fails over to second preference dial-peer
CSCvj60825	Redzone overlay copying SIP SDP data
CSCvj76866	Partial Power Failure in Stack Causes Interfaces to Become "shutdown"
CSCvj78876	CUBE: FPI Hung Sessions and Provisioning Failures observed in Standby CUBE
CSCvj82585	CCSIP_REGISTER memory leak@__be_voice_reg_bulkreg_initialize
CSCvj84601	Called-Station-Id attribute not included in Radius Access-Request
CSCvj90089	Crash while doing a conference call
CSCvj90989	Traceback observed with DN assignment and removal using extension assigner
CSCvk03388	After enabling fac standard, cancel call waiting *1 scenario is not working properly
CSCvk17998	Rekey Timer are same for both the Server and Client
CSCvk26109	ISAKMP using UDP500 rather peer(translated) port from peer structure while initiating IKE SA for DPD
CSCvk42239	Night service code when dialed in from sip phone does not toggle ephone 1 status
CSCvk47271	ISR4K crashed in FXS-FXS non-hairpin call
CSCvk51939	SSS Manager Traceback observer when test MLPPP
CSCvk58112	Router crash after binding virtual template to IWAN domain
CSCvk60643	Memory leak observed in AFW_Redirect_New with call transfer recall FIT1 script
CSCvk63764	Driver code improvement for debug-ability of XAUI link issues
CSCvk63782	Quick RP3 recovery after the Punt Path XAUI link goes down
CSCvk65453	NFS link of FP/CC broken on Modular Chasis
CSCvk71047	Router fails to reserve necessary ports for VPN traffic (UDP 500 & 4500) for ISAKMP
CSCvm02454	"auto assign" config under telephony-service returns % Ambiguous command: "auto"
CSCvm06775	ATOM CW is not exchanged after node reload
CSCvm07861	Process = VTEMPLATE Background Mgr crashed in flexvpn session
CSCvm11235	SRTP to RTP call through IOS-XE CUBE produces static with jitter present
CSCvm17348	callq periodic notification timer needs update after CSCve91511 commit [No functionality impact]

Caveat ID Number	Description
CSCvm19435	Crypto not updated post standby IP address change
CSCvm22142	[Polaris] Critical Authentication affected if Voice VLAN not configured
CSCvm24689	One-way audio to IP phone if phone does hold/resume after 20 minutes on secure SIP GW
CSCvm39485	Small clock changes or time drifts can cause GETVPN TBAR drops (GDOI/IPSEC-PI)
CSCvm46362	ASR1k node in HA pair might crash due to punt-keepalive failures
CSCvm47675	Stale entry in shared line database on executing no voice register dn.
CSCvm47690	Addition/Edits to numbered OG ACL using "access-list <>" command does not re-expand the ACL.
CSCvm47984	ISR4331: 16.9.1: snmpwalk error - OID not increasing
CSCvm51857	ivr: Dialpeer leaks observed in HG with shared-line flow
CSCvm51920	leak observed in AFW_application_proc(buildDestControlInfo) in VHG with shared-line flow
CSCvm56135	IOS-XE block CLI "tunnel protection ipsec profile <name> shared" on Virtual-template type tunnell
CSCvm57644	Small clock changes or time drifts can cause GETVPN TBAR drops (Crypto-DP)
CSCvm58777	CUBE Gets Stuck In 491 Request Pending When Using TLS
CSCvm62742	ISR4300 shows abnormal large RTT
CSCvm65979	ASR-CUBE: Crashes with call spike configuration changes
CSCvm70042	Voice Hunt Group Sequential, Peer or Longest-Idle keeps ringing when member hits Decline softkey
CSCvm77154	voice calls randomly drop with cause code 47 and traceback error in CPPOSLIB-3-ERROR_NOTIFY
CSCvm80443	IOSd memory leak within DSMIB Server within xqos_malloc_wrapper
CSCvm91642	MACsec SAP 128 Bits doesn't work with network-essentials license
CSCvn00104	Software crash due to memory corruption after packet trace was enabled.
CSCvn03502	SR: CFLOW input intf index is 0xffffffff for Service-engine DSP module interface
CSCvn03895	Polaris: Using MTR in redundant RP systems will reload the standby due to parser return error
CSCvn08822	Caller doesn't get Ringback tone when transfer to park slot and recall back to SNR enabled Extension

Caveat ID Number	Description
CSCvn11100	Memory leak seen@__be_AFW_Event_New
CSCvn15600	RTP-NTE packets in sip-kpml <-> rtp-nte scenario have timestamp 0 on CUBE.
CSCvn17530	Router Crashes When PKI-CRL-IO_0 Runs out of Stack Space During Failed DNS Lookup for CA Server
CSCvn23906	DHCP Server sends Renew ACKs to Clients with 00:00:00:00:00:00 MAC in L2 frame
CSCvn37147	Lowering the severity of Harddisk Missing Alarm from Major to Info
CSCvn37237	ASR1002-HX crashed after huge traffic is transmitted over it
CSCvn45732	Device crashing if we unconfigure the NTP on the device
CSCvn51557	Negating dialer watch-list command without alternating the entered CLI command.
CSCvn54470	ASR1006X linecard down after Active RP3 OIR
CSCvn57892	High Memory utilization due to Wireless Manager IOSD process
CSCvn59647	CSR1000v LDAP causing memory corruption
CSCvn61039	ISR4k - 'control-plane host' feature was moved to APPX feature set.
CSCvn63087	Observing Memory leak at Sip MPA
CSCvn63395	ASR-1002-HX crash at headend running 16.9.3
CSCvn66258	ASR1000-2T+20X1GE interface speed change from 100 to 1000 after switchover
CSCvn67870	Reorder ip nat configuration - to be placed after ip http configuration
CSCvn69629	ND packets received in remote vtep SISF table - EVPN part
CSCvn70066	ASR1K Crash on device when SNMP walk is done while configuring QoS on interface.
CSCvn71373	IOS-XE routers cannot boot due to a bootflash problem
CSCvn71487	CUBE fails to send outgoing SUBSCRIBE if egress dial-peer has "session server-group" configured
CSCvn72208	RP3 Punt Interface May Drop Traffic Due to VLAN Filter Hardware
CSCvn76236	Add support for AAA CC <cleartext> secrets.
CSCvn76365	VoIP Dial-peer up/down traps sent to SNMP server every interval
CSCvn77530	Polaris IOS-XE Router Crashes Upon running "show debug" or "undebug all"
CSCvn77594	SRTP decryption failure leading to one-way audio issues for hairpin calls on CUBE.
CSCvn77783	class-attributes support in ISG radius proxy scenario
CSCvn78203	Router crashed when printing logs while constructing rekey packets (GETVPN)

Caveat ID Number	Description
CSCvn82489	CUBE changing the payload for content sharing packets, though it negotiate correctly
CSCvn85422	Int index is 0 for the Cellular interface in the exported flow
CSCvn92709	SNG_AO unavailable alarms are not clearing after removing the monitor-load feature under policy
CSCvo00664	SUP reload after running the command " show plat hard qfp act infr bqs debug qmrt_dump "
CSCvo01298	Correction to Quick RP3 recovery after the Punt Path XAUI link goes down
CSCvo03167	CUBE failed to send BYE on peer leg with 'media stats-disconnect' enabled
CSCvo03458	PKI "revocation check crl none" does not fallback if CRL not reachable
CSCvo04856	DataPlane (DP) crash observed in MMOH call flow
CSCvo05000	SIP global binding disappears when the interface to which SIP is bound flaps.
CSCvo05751	Polaris : Changes for sending vlan attrs in access request
CSCvo06817	Router crash while executing show commands using ' ' (pipe) to filter the output.
CSCvo07698	SRST Parallel hunt group fails if first member missing
CSCvo08740	TCP 3WAY handshake fail for redirected packet using PBHK
CSCvo09246	ISR4351 communication down few minute after shutdown/no shutdown interface
CSCvo10145	Memory overlay crash when using include-cui
CSCvo10491	PnP Agent should detect image upgrade scenario and configure dialer to bring up cellular interface
CSCvo11786	SCCP Application does not clear failed sockets leading to leak and socket pool exhaustion
CSCvo12745	Packet drop occurs after acl permit configurations
CSCvo12799	Call is not getting connected in Forking Re-INVITE scenario
CSCvo15003	CUBE - SDP version increment behaviour creates cypto interworking issues
CSCvo15215	SIP-Notify/KPML to DTMF RTP-NTE interworking fails, NTE packets dont have the marker bit set to TRUE
CSCvo16902	ASR920:memory leak due to csmControllerStatistics (CISCO-SDG-MDNS-MIB) on snmpwalk
CSCvo17287	ASR1001-X crashed upon receiving Radius Access-Accept message
CSCvo17528	Reload initiated via SNMP on IOS-XE causes a crash

Caveat ID Number	Description
CSCvo18415	Unable to remove "logging source-interface <if-name>" command on 3850
CSCvo19234	Memory corruption while freeing memory
CSCvo19395	Router crashes when removing a crypto map
CSCvo19623	9200L Day0 setup not working out of box.
CSCvo20620	CUBE DNS SRV Query is not performed for PRACK
CSCvo20934	FMAN crash due to Flexible Netflow (fnf)
CSCvo21122	Memory leak at hman process
CSCvo22398	ISR4k with NIM-ES2 do not forward STP Uplink Fast dummy packet
CSCvo22943	Expected error message is not seen after Configuring MisMatching Bit Length - 16.9 throttle.
CSCvo25179	Router Crashed with running Layer Two Tunneling Protocol Version 3 (L2TPv3)
CSCvo25785	Crash on an LNS router in process ACCT Periodic Proc
CSCvo27553	PKI incorrect fingerprint calculation during CA authentication
CSCvo27955	CUBE adds 'Require: timer' to Early Dialog UPDATE
CSCvo28017	CSR1000v IC2M Self Integrity Test Bypassed
CSCvo29878	C3850 - SNMP Pending Messages have nonsensical expiry timers.
CSCvo31932	CUBE 100% CPU usage when using outbound-proxy dns: and session server-group
CSCvo36031	WSMA crash formatting show command output
CSCvo36188	Crash at NAT clear
CSCvo36948	Router crash when running show aaa user all command
CSCvo37464	CUBE picks incorrect interface for media after receiving c=IN IP4 0.0.0.0
CSCvo38985	Crash at the VRF configuration
CSCvo41815	When roaming to another AP, services received from RADIUS are not applied to the session
CSCvo42105	IOS-XE DHCP server creates option 125 with invalid format
CSCvo43897	ISR 4331, wrongly adding to Port to subscriber field after translation.
CSCvo43953	Memory leak in CENT-BR-0 process
CSCvo46127	MaxSusRate is not working with service class
CSCvo46138	Stuck CPP Thread while processing H323 packet

Caveat ID Number	Description
CSCvo46405	qfp ucode crashed with sRTP traffic - chunk memory corruption
CSCvo47436	IOSXE - firewall corrupts half open list
CSCvo47824	isr4461 may fail to recognize SFP+ 10GBASE-LR on the latest polaris_dev images
CSCvo47866	Crash at Process = SCCP Auto Config
CSCvo57387	Blind Transfer fails due to 491 Request Pending against UPDATE in early dialog
CSCvo58098	CTS PACS not downloading to the devices
CSCvo60302	Deleting one sip-copylist will remove all sip copy-lists from dialpeers
CSCvo61610	FXS - no busy tone is generated on remote-onhook condition with call pickup scenario
CSCvo61914	GC NAT unable to detect dns packet
CSCvo62584	DHCP discover packets were being dropped at firewall since UDP source port as 0.
CSCvo65803	One-way video after 15 mins/session refresh due to rtp pli packets drop
CSCvo66216	IPSec-Session count in "show crypto eli" reaches max causing VPN failure
CSCvo67856	in.telnetd process consumes 100% CPU in show process cpu platform sorted
CSCvo68753	C93k SDA edge seg fault in LISP fwd background process
CSCvo70504	Missing Calling-Station-ID in Accounting Ticket for Web-Tal locations
CSCvo70549	CME SIP: BE4000 Smart Licensing - Extension Assigner temp registration uses endpoint license
CSCvo70837	ISR4300: show version IDMGR-3-INVALID_ID: bad id in id_to_ptr traceback
CSCvo71381	dot1x dynamic voice assignment failure after data domain auth such
CSCvo71445	MACSEC license is not being consumed for sub-interfaces
CSCvo71721	When sending account-logon ISG do not reply with ACK nor NACK.
CSCvo73205	Identity policy won't update after config changes.
CSCvo73954	ASR1001-HX: Excessive pause frames (IEEE802.3x compliant) affect traffic on other interfaces
CSCvo74486	IOS-XE ACL port information preserved after encapsulation
CSCvo75523	ISR1K: Router crash with ZTP using Python script running in guest shell
CSCvo78685	Ambiguous/unidentical ConnectionID and Fcid during CDR accounting after IOS upgrade
CSCvo80960	Streaming CRCs seen with GLC-GE-100FX VID: V02 on ISR4k

Caveat ID Number	Description
CSCvo82837	Transcoder getting invoked for SRTP-SRTP calls.
CSCvo83945	Ping failure on Port-channel sub interface when is using EVC in main port channel
CSCvo83960	ISR1100 router reloaded at posix_twheel_process_timers_inline
CSCvo90060	Wrong label programming leading to traffic drop
CSCvo91685	CUBE doesn't send INVITE to Registrar to which CUBE is registered.
CSCvo92514	SDP attribute list corruption causes voice gateway crash
CSCvo94211	Traffic stops flowing on Xconnect tunnel when upgraded to 16.9.2
CSCvo99156	Unexpected reload in btrace routines due to division by NULL.
CSCvp00271	Read and Write lock fix for ACL cache
CSCvp00579	bqs may select an inaccurate rate
CSCvp03846	Bye Also Transfer Fails with Call Route URL Enabled Post B2BHA Switchover
CSCvp05070	Overlay BGP down when configured "ip nhrp server-only"
CSCvp08738	Router loses "transport tcp tls v1.0" on reload
CSCvp08996	locale installer in CME should allow full filename to be loaded
CSCvp09091	When sourcing Radius from loopback in VRF, auth right out of boot up might fail
CSCvp10711	Hierarchical QoS stops working on GRE tunnel if dest route flaps between 2nd tunnel and physical int
CSCvp16730	Incoming ESP packets with SPI value starting with 0xFF are dropped due to Invalid SPI error
CSCvp19568	L2VPN - Xconnect - filtering of LDP targeted hellos using ACL not working
CSCvp20770	Nas Identifier not sent in Accounting Packet
CSCvp23112	OBS: ping stop working on replacing MIP100 ->>> SIP40 >>>>>>MIP100
CSCvp24911	SRTP ROC Stress: CPP crash with 6000+ concurrent calls - g729
CSCvp25052	ISR4K: Router crash due to twice memory release
CSCvp26876	PNP profile using hostname is not working anymore
CSCvp27996	sip re-invite trigger dsmp_dsp_pak_unsuppress
CSCvp32910	CHUNKBADROOTCHUNKPTR: Bad root chunk pointer in chunk header post SSO - ASR1K
CSCvp33578	Crash at the moment of deleting a DVTI

Caveat ID Number	Description
CSCvp34230	CUBE HA - Global bind is removed during interface flap
CSCvp35643	Neptune: CDP and ping to next hop fails on Ten Gig int after device comes up post "wr er" and reload
CSCvp37231	CSR1000v - i40evf interface shows Up but does not pass traffic
CSCvp38317	MGCP GW doesn't reset SSRC/ROC on receiving MDCX with new IP/port/SDP parameter for SRTP call.
CSCvp38407	"Radius-server attribute 31" command broken on LNS when LAC sends Remote-Id string
CSCvp39597	Crashes with GRE tunnels configured with QOS over Multilink Frame-relay interfaces
CSCvp42709	ISR44xx NO_PUNT_KEEPLIVE kernel crash due to CP drivers stuck punt and IPC rings
CSCvp46381	static nat which has been deleted is shown when show ip nat translation
CSCvp47792	VG3x0 - groundstart voice-port configuration removed after reload
CSCvp48213	CSR1000v loses ssh/telnet connectivity on AWS and is unable to ping Elastic IP
CSCvp49863	Incomplete arp in management interface
CSCvp50733	UTD: Process SSL callback on client hello message as opposed to server response
CSCvp56596	ISR4K crashes after voice register reset command is applied
CSCvp56737	Counters of interfaces are reporting inexistent peaks
CSCvp58583	Switch unexpected reloads in aaa_coord_auth_request
CSCvp59848	ASR1001-x crash while configuring policy-map
CSCvp60827	Delay of 30 sec while creating a new config file for phone using tftp.
CSCvp61738	Split DNS not working in case of TCP query coming on WAN interface and destined to LAN interface
CSCvp63616	Crash due to too many DSPs
CSCvp64727	Video call over CUBE drops when number of m-line increase in the RE_INVITE
CSCvp66281	default ip forward-protocol udp xx changed to no ip forward-protocol udp xx after rollback
CSCvp66443	HTTP Client inside IOS-XE incorrectly reports "Invalid IP address in Hostname" for legal IP address
CSCvp67530	Corrupt free block of memory with high availability config for Session Initiation Protocol

Caveat ID Number	Description
CSCvp70211	Crash when running show crypto map
CSCvp70443	isdn cause-location command support for switch-type primary-ntt
CSCvp70459	IOS: Prevent crypto ACL change if already mapped with crypto map configuration
CSCvp72379	ip dns primary command does not get removed
CSCvp73344	Standby crash during ISSU
CSCvp75121	Ucode crash when Pfrv3 and IPv6 monitor are configured on the same tunnel with IPv6 VRF configured
CSCvp77100	ASR1k: Crypto Engine remains in stuck state post dataplane crash
CSCvp79333	SSH may crash due to a corrupt MAC
CSCvp81102	IPsec SA installation fails with simultaneous negotiations despite fix for CSCve08418
CSCvp83582	ASR 920 SW 16.9.3 Issue with "platform usb disable" CLI
CSCvp83882	NIM-VAB-A stops forwarding traffic after line resync
CSCvp84831	name-ip_address mapping is bypassed when the ip domain command is configured on Cisco C1111X Router
CSCvp85916	Crash when "show running" is used
CSCvp86216	Router ucode crash with NAT with interface flap
CSCvp87195	200 OK and UPDATE in fast succession causes issue with refresher param in update response
CSCvp87488	no login on-success log CLI does not persist across device reloads
CSCvp89419	Error messages seen when configuring "logging persistent protected" on ASR1K routers
CSCvp91966	When Dial-Peer is Marked Down Due to Option Pings the Call Fails with Cause Value 47
CSCvp92334	Crash after Media monitor look up.
CSCvp96418	ISR4k BRI ping failure with WIC-1B-S/T-V3 with ISDN 128 leased line
CSCvp98673	Inband to OOB DTMF Fails to Be Passed On CUBE If Media Inactive Comes During Digit Processing
CSCvp99884	CUBE not passing History-Info header in 181 Call is being forwarded
CSCvq00263	Device crashed @ radius_io_stats_timer_handler due to dynamic-author
CSCvq00617	CME Crash with call to shared line when 1 setup leg is NULL
CSCvq00619	BGP flap while doing shut/no-shut on a different FPGE interface.

Caveat ID Number	Description
CSCvq01055	Replaces string not passed on CUBE REFER consumption scenario when address-hiding is configured
CSCvq01788	9400 crashed at radius_dynamic_author_server_udp_input without any trigger in 16.9.3
CSCvq02003	ASR1002-X High Platform CPU for process mcpcclc-ms
CSCvq04828	VRF aware reverse DNS lookup not working
CSCvq04989	ping between 2 Interfaces is not working , dialer interface is interfering in the ARP Process
CSCvq10663	NAT SIP Contact Header changed to port 512
CSCvq11134	SDP version was incremented due to misplace of PT 100
CSCvq12723	DPDK: Performing Shut/No-Shut with traffic running can cause packets to silently drop on TX
CSCvq18105	ISR4321 ifOperStatus for Cellular reports Up when it should be dormant
CSCvq18793	NIM-2FXS/4FXOP crashing due to DSP failed to reply properly
CSCvq19808	Egress shaping on port-channel sub-intf tail dropping traffic long before rate
CSCvq25176	SIP GW/CUBE does not update the change in remote SRTP key on session refresh re-invite.
CSCvq27812	Sessmgr CPU is going high due to DB cursor is not disabled after switchover
CSCvq32736	ARM - Marvell 7040 SoC Hardware Erratum - Kernel Driver Fix
CSCvq36130	Router is on Bootloop after QoS configuration.
CSCvq38104	Webex Calling - TDM-IP - Hold/Resume from Broadcloud causes one-way audio
CSCvq39121	ISR4k crash during packet inspection due to stuck thread
CSCvq39521	AppNaX Cluster do not send/log "clear" alarms from cluster
CSCvq45088	asr1k BDI not working properly for packet fragmentation - very small fragments are getting dropped
CSCvq60252	PBR works although an interface is down.
CSCvq63632	LGW/CUBE/TDM memory leak when STUN is enabled
CSCvq71874	CUBE Crashes with STUN keepalive messages triggered on Non reachable IP
CSCvq74831	Enable modem CO4 setting for VDSL CPE

Open Caveats—Cisco IOS XE Fuji Release 16.9.4

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the Open Bug Search.

Table 8: Open Caveats—Cisco IOS XE Fuji Release 16.9.4

Caveat ID Number	Description
CSCuy75886	lots of chunk memory leak about SNMP SMALL CHUN and SNMP MEDIUM CHU
CSCuz42552	cgna traceback on PI31 branch nightly build
CSCva53392	Polaris 16.3.1 : Machine and bus error failures in ESP20
CSCve89377	RFGW-10 Sup Moka CRC Causes Slot 3-10 Linecard Restarts
CSCvg81130	ARP packets not getting forwarded with DAI enabled
CSCvh59431	Byte counters for physical interface and subinterface don't match
CSCvh66339	Linux shell prompt format changed with cEdge image
CSCvh94152	IPV6 MLD queries re not generated
CSCvj00317	Memory leak VOIP *MallocLite*
CSCvj54490	Modify the input ACL on the fly has no effect on the traffic
CSCvj86316	Different ISP name smartprobes are received in branch WAN interface, the channel cannot detect
CSCvk32783	Standard IPSec support in IOS-XE SDWAN software
CSCvk39056	memleak_detect script errors "can't use floating-point value as operand of -"
CSCvk74443	Multicast IPv6 ping within VRF return % No valid source address for destination
CSCvk75838	netconf/yang or telemetry retrieval of /trustsec-state/cts-rolebased-policies breaks
CSCvk76401	Post 3650 Mobility Agent Reload the Mobility Tunnel down due to "DTLS handshake error"
CSCvm46312	ASR920:CFM remote endpoint with backup pseudowire points to primary peer IP in HSPW
CSCvm77162	FED logs overrun 20,000 times with same trace
CSCvm94970	[UniScale]Crash seen on csr1k during NAT44 hsl scale test when clearing max NAT translations
CSCvn02456	Router crashes when the calls doesn't establish after making 2 calls when we set "max-conn 2"
CSCvn08136	Removing FNF config using the command "no vlan config 1-4094" causes watchdog forced crash
CSCvn33127	ISAKMP SA is not deleted even if crypto config is deleted (IPsec NAT-T).
CSCvn33844	RATE_11M supported cannot be preserved in config after reboot(no lower datarates set as mand.)

Caveat ID Number	Description
CSCvn46955	Memory leak found in CUBE after the test suite execution
CSCvn47985	ACL remarks not handled correctly by Cisco-IOS-XE-acl YANG model
CSCvn76837	DMVPN Phase 2 shortcut triggered from a spoke behind PAT may end up in stuck DNX state
CSCvn79227	QSIG - SIP - Connected Number Missing leading digit when decoding raw QSIG
CSCvn82063	Input CRC counter increasing on Tengi interface.
CSCvn86466	AAA-CC: password type-6/7 should follow the hash design and only work against expiry or be removed
CSCvo45257	mem leak in ios_portal_vty_run_cmd
CSCvo56553	ASR1000: RP3 crash due to punt-keepalive failures
CSCvo76058	CSR: Unconfiguring VPG interface causes a traceback
CSCvo76620	Call drops on CUBE when Hold/Resume switches codec and with midcall-signaling passthru media-change
CSCvo78046	AWS: UDI serial changes when CSR 1000v instance type is changed from c4 to c5 or vice versa
CSCvo87827	Crash when polling IPForwarding MIB
CSCvp00054	Router unexpected reloads when doing ipv4_nat_destroy_addrport_bind
CSCvp08353	Add ERROR message over IOS console when HSPRDA TCAM region gets full
CSCvp25925	CSR1000v AWS typo in user-data can break SSH connectivity
CSCvp27139	Async lines configuration is not retrievable over netconf
CSCvp27158	CUE AA leg not cleared on ios after it does blind xfer to sip line
CSCvp31671	Router crashes due to a call loop
CSCvp45666	Kernel crash in netfilter
CSCvp47006	QoS counter didn't generate at ASR1001-X
CSCvp47723	ISR4K CME no way audio on calls across E1/PRI, reboot resolves for sometime
CSCvp65151	CPP Stuck thread when processing IPv6 traffic
CSCvp69393	Router crashes after snmpget to OID related to NHRP
CSCvp86310	Cisco XE SD-WAN Router unable to inject packets when traffic is destined to it
CSCvp90226	"advertise ospf external" throws application error

Caveat ID Number	Description
CSCVq01940	BE4000 No MeetMe conference softkey in 7832 phones.
CSCVq08226	ISR4K crashes when inserting LTE card
CSCVq14832	CUBE Fails To Take the Accept Header Into Account When Receiving Option Pings
CSCVq18328	SSH: host_key->name is not null after reload which prevents SSH from starting up
CSCVq23869	ASR 1k sub-interface counters wrong.
CSCVq25297	BRI leased line can't come up automatically after remove/insert one side's cable
CSCVq26821	shaper of the internal crypto interface is incorrectly programmed
CSCVq29575	Voice gateway crash due to segmentation fault in process CCSIP_DNS
CSCVq29953	IP SLA react for packetloss and successivepacketloss do not set \$_ipsla_react_type in EEM
CSCVq30306	IOSXE: IOMD / TDL leak seen with tdl_response_xcode_stat_side_t
CSCVq31129	AppNav: Optimization failed with Asymmetrical traffic, VRF, FNF and NBAR
CSCVq31851	Catalyst 9200L silent reloads
CSCVq31871	Router crashes with ZBF HA sync.
CSCVq39787	Support status of Restapi container for CSR has not been documented
CSCVq43004	Need to check qfp ucode crash with RTCP traffic - chunk memory corruption in RTCP path
CSCVq47186	L2 EVPN: Remote MAC not unfrozen when duplicate cleared with no MAC-only route
CSCVq49000	Supervisor reloaded due to cpp_cp_svr process crashing
CSCVq49721	Telnet access fails when VRF-aware extended VTY ACL is configured
CSCVq50164	Back out Monolith code of CSCVp10711
CSCVq50202	Class-attributes duplicated after EAP reauthen. in ISG radius proxy scenario
CSCVq57205	Recording failures with XMF media forking and SIP preservation timer
CSCVq57862	cable-detect command not reflecting proper status in Analog ports on IOS-XE platforms
CSCVq57996	RADIUS attribute 4 (NAS-IP-Address) is not honored
CSCVq58144	cpp_cp_svr crash in cpp_bqs_rm_yoda_select_sch_exponent
CSCVq58237	Supervisor reload due to cpp_cp_svr crash.
CSCVq58265	ASR1K BGP PIC Repair path broke after link flap

Caveat ID Number	Description
CSCvq58378	Crash after exiting RADIUS server configuration mode.
CSCvq58520	after reload dial-peers with ports that have the 'signal did' command show operational state none
CSCvq59908	Stack crashed after upgrade
CSCvq63570	CME SIP: Add custom SK templates support back to 7832/8832 conf phones
CSCvq65366	Cube might crash when sending a SIP message over TLS
CSCvq67003	CPP microcode core file generated due to HW interrupt
CSCvq71864	Crash after executing "show archive config differences"
CSCvq72064	Accounting Stop is being sent for the wrong authentication session
CSCvq72298	Router crashed on running show policy-map interface <> output command
CSCvq73281	TLS connections in WebEx between CUBE and iCP/CUSP breaks intermittently
CSCvq73575	TCP traceroute - response ICMP TTL exceeded packet dropped by ZBFW with NAT enabled
CSCvq74418	connectivity is broken on ingress-replication L2DP/VXLAN
CSCvq75039	ASR1002x crash due to "fw_base_flow_create"
CSCvq75544	Crash: Memory corruption after reconfiguration of SONET controller
CSCvq75610	IWAN router crash after upgrading to 16.3.8
CSCvq75994	Issue with installing CSR 1KV MEMORY 4G license with SLR
CSCvq76537	CUBE fails to respond to second Session Refresh after refresher is forcefully reversed
CSCvq77657	can access to C9200' Mgmt port cross subnet even there is no vrf default route configured
CSCvq78529	Seg Fault 11 crash at cts_ip_sgt_binding_sync on CTS enabled SDA fabric-edge switch stack
CSCvq78911	Device sensor breaks with ignore-acct-port configured in automate-tester
CSCvq80160	Device-sensor not included in Accounting packets
CSCvq81620	Router crashes with ZBF HA sync.
CSCvq83612	Polaris 16.9 QFP crash due to a stuck thread
CSCvq85329	NEAT/CISP:authenticate SVI interface for Supplicant switch in NEAT port when spanning-tree disabled

Caveat ID Number	Description
CSCVq85913	FlexVPN with password encryption -- after MasterKey change password in profile is not working
CSCVq87063	getvpn suiteb:KS sends delete payload to gm's while scheduled rekey after primary KS dead/readdd
CSCVq90343	Secure SIP trunk between SIP-GW/CUBE and CUCM with multiple nodes not coming in to service.
CSCVq90361	NHRP process crash
CSCVq90639	CUBE : SIP INVITE is not sent to TGW when rtp-nte or rtp-nte digit-drop is enabled
CSCVq91046	ASR1k crash in NAT code when processing PPTP traffic
CSCVq91789	When issuing ip helper-addresss x.x.x.x command, "sh run" and "sh run all" show differently
CSCVq92102	VG450: SCCP crashing router while shutdown the process
CSCVq93197	Hostname is not accepted as a part of "snmp-server host" command.
CSCVq93745	C9400 - Unable to edit FNF commands after pull out a LC
CSCVq93830	IOS XE: RSA Keys randomly getting wiped out after rebooting
CSCVq94679	[SDA] Crash due to Segmentation fault(11), Process = ARP Input
CSCVq95517	Segmentation Fault in IP RIB Update following Virtual-Access Interface flap
CSCVq95756	IPSec SA creation failure causes crash in fman-fp-image
CSCVq97365	ISR1111 not getting IP Addresses in its inrterfaces when running 16.6.6 IOS
CSCVq97906	"DHCPD Receive" process crash
CSCVq98095	Gi0/0/0 interface stays up/up and LED green after cable removed
CSCVq98999	ISR4451-X / 16.09.01 / Crash when IPSEC SA installation fails
CSCVr00183	AAA accounting issue after router reload when mGRE and L3VPN configured
CSCVr00344	"ip access-list logging hash-generation" removes ACL statements upon reload
CSCVr00983	Upgrade from 16.6.3 to 16.6.5 crash router with Unrecoverable Error
CSCVr01327	incorrect Total number of translations on show ip nat translations

Resolved Caveats—Cisco IOS XE Fuji Release 16.9.3

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Table 9: Resolved Caveats—Cisco IOS XE Fuji Release 16.9.3

Caveat ID Number	Description
CSCvi43518	qWLC-Sanity: interface down due to %EZMAN_RM-3-SERDES_AUTOTUNE_FAIL-R0/0: Failed on lane 54
CSCvj12370	ASR1002-X router crashed in cpp_qm_event_collapse_hl_node
CSCvj44507	16.10 ASR1K: IOSd crash @SSS Manager during sessions teardown
CSCvj45781	QFP CGM Memory depletion during ISG session churn
CSCvk12253	ASR1001-HX crashed due to critical software exception on operation group-object add/remove
CSCvk20560	491 not sent in a multiple re-invites in DO2EO scenario
CSCvk62792	IKE Fragmentation payload incorrectly marked as critical
CSCvm01420	CUBE crashes at sipSPI_ipip_vcc_CheckCodecSetType
CSCvm19399	CRL file is getting overwritten when PKI server turns up after reload
CSCvm39130	16.6 and 16.9: cannot OIR harddisk on ASR1000-RP2
CSCvm39894	False authorizations and authentications even without radius server for dot1x/mab
CSCvm44488	ASR1001-HX 10GE SFP+ ports may operate as 1000Mbps
CSCvm45068	IOS CUBE Ent does not show 'media anti-trombone' in configuration
CSCvm51112	"clear crypto sa vrf MyVrf" triggers crash after updating pre-shared-keys
CSCvm58960	"VoIP dial-Peer <XX> is Busied out" printed in log every 2 minutes when destination is not reachable
CSCvm61279	Crash under AFW_application_process with shared-line configuration
CSCvm62419	Crash at CCB of RTPSPI at the moment of creating a disconnect timer
CSCvm65384	SNMP PKI trap are generated with wrong OID of 6999 instead of 854 per OID assignment
CSCvm65397	Active RP crash at __be_datagram_done
CSCvm74894	PKI authentication should proceed even if GetCACaps return any http failure
CSCvm76295	[SAP] syncfd fails to start on reload after upgrade to new ES image
CSCvm76452	IPSec background crash while sending SNMP trap
CSCvm76464	ASR1k crash due to QoS in case of 4k subscribers per subinterface
CSCvm76590	CUBE doesn't forward 200 OK in SRTP-RTP scenario with TCL script on Dial-peer
CSCvm80502	Traceroute not working when sourced from NAT Inside interface

Caveat ID Number	Description
CSCvm91837	IOS and IOS-XE STCAPP service not updating DTMF RFC2833 payload when there is SCCP renegotiation
CSCvm92019	Media Ant-Trombone does not properly handle a Re-Invite utilizing a Replaces Header
CSCvm93603	IP change on dialer-int does not trigger a correct "local crypto entpt" in DMVPN
CSCvm94788	Device reloads when applying #client <IP> vrf Mgmt-vrf server-key 062B0C09586D590B5656390E15
CSCvm94891	Crash caused by a "TLB Modification exception" after processing a null chunk in "IP Input" process.
CSCvm95929	100FX OPNEXT SFP does not come up on ASR1001-X
CSCvm96960	ASR1001-X throwing: ETH_SPA_MAC-3-SPI4_ERROR: SIP0/1: Marvel MAC
CSCvm99036	CUBE Crash in CCSIP_SPI_CONTROL process
CSCvm99045	IOS-XE PKI: Certificate with 4 dashes imported in trustpool gets lost after reboot
CSCvn00218	CUBE Crash in sipSPIAppAddCallInfoUI
CSCvn00277	ASR 1006-X RP2 : Standby RP Crashed after running command "license boot level adventerprise"
CSCvn02419	Router crash occurs while running Dell software update
CSCvn07478	Ethernet FRR switchover takes more than 200ms on EPA10 and EPA100 if remote Rx fiber is pulled
CSCvn07614	Out of Band DTMF Events Not Passing to CUCM via SCCP When Using IOS MTP
CSCvn14737	Crash with SIP call
CSCvn15588	loss of two way audio with Skinny Phone, Line instance does not work until the next reboot.
CSCvn18790	Cube crash with %SDP-3-SDP_PTR_ERROR
CSCvn23732	show interface output reports incorrect bandwidth
CSCvn31824	IOS-XE ISAKMP deletes new SPI if rx new SPI packet before installation is done
CSCvn33961	SSRC-field in RTCP gets changes to 0 when going through TRP present in the media path.
CSCvn36359	CUBE doesn't forward INVITE with "midcal-signalling passthru media-change" during a video escalation
CSCvn37915	Crash in cpp_bqs_rm_yoda_proc_pend_fc_cb
CSCvn41467	Recommit of CSCvm99778 - eca/ewlc/qwlc/mewlc Sanity : AP join failed.

Caveat ID Number	Description
CSCvn51553	QFP crashes with a HW interrupt
CSCvn53969	Memory leak in SMD process due to AAA Idle-timer not being freed
CSCvn56365	In some cases non AppNav Configuration cause AppNav-XE Token changes
CSCvn64296	Crash when making an external call
CSCvn64397	Incorrect syntax in CRL download URL cause crash
CSCvn67837	TCP port takes 4 minutes to get released after it is closed
CSCvn71041	TACACS group server is not seen, when "transport-map type console test" is configured.
CSCvn78349	FlexVPN with password encryption - keyring aaa LIST password 6 xxxxx encrypted again upon reload
CSCvn78961	Subscribers cannot re-login due to CoA time-out (lite-sessions in routed mode)
CSCvn82245	EIGRP session is not coming up if the dynamic PBR is applied on interface
CSCvo00968	Radius attr 32 NAS-IDENTIFIER not sending the FQDN.
CSCvo11361	Priority queueing on port-channel interfaces causes frame re-ordering.
CSCvo15141	CLI "nat force-on" in voice service voip not working as expected

Open Caveats—Cisco IOS XE Fuji Release 16.9.3

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the Open Bug Search.

Table 10: Open Caveats—Cisco IOS XE Fuji Release 16.9.3

Caveat ID Number	Description
CSCvn56017	Crash while processing ISIS updates when DiffServ-TE is enabled
CSCvn71102	ASR1K Crash with Realod Reson as IntelResetRequest.
CSCvn78203	Router crashed when printing logs while constructing rekey packets (GETVPN)
CSCvo17287	ASR1001-X crashed upon receiving Radius Access-Accept message
CSCvo18177	IPV4 routes on the global routing table learnt via BGP refreshes upon adding or removing a VRF
CSCvo20934	FMAN crash due to Flexible Netflow (fnf)
CSCvo24170	Crash due to chunk corruption in ISIS code
CSCvo27976	SRTP load balancing crash
CSCvo36188	Crash at NAT clear

Caveat ID Number	Description
CSCvo46405	qfp ucode crashed with sRTP traffic - chunk memory corruption
CSCvo61087	ASR1006-X Crash __be_mcprp_punt_keepalive_receive_check
CSCvo62584	DHCP discover packets were being dropped at firewall since UDP source port as 0.
CSCvo65415	ASR1k crashes by handling DHCP packet

Resolved Caveats—Cisco IOS XE Fuji 16.9.2

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Caveat ID Number	Description
CSCuz14861	IOS-XE Fails to correctly populate RTCP SSRC Field
CSCve31475	SNMP Error: OID not increasing: @ipAddressIfIndex.ipv6z
CSCvf65079	ASR CUBE 1K reloaded with reason: RG-application reload on voice-b2bha RG
CSCvi08303	Standby RP Reloads due to Config Sync Failure When Applied Service-insertion WAAS on Physical Int
CSCvj16209	CME with external SIP trunk registration results into crash.
CSCvj24940	Voice VRF with No Bind OPTIONS Ping response not sent
CSCvj25678	Crash after failing to modify xcode
CSCvj27172	Crash during Generic Call Filter Module cleanup
CSCvj43156	Crash in XDR process: "fib_rp_table_broker_encode_buf.size <= FIB_RP_TABLE_BROKER_ENC_BUF_SZ"
CSCvj68607	ASR1K crash in tplus_handle_req_timeout
CSCvj69654	OSPF originates default route without "default-information originate"
CSCvj73544	ospf routing loop for external route with multiple VLINKs/ABRs
CSCvj76285	Snmp v2 breaks due to Authentication failure, bad community string, 16.03.06
CSCvj78551	ASR1001X @incorrect traffic statistics reported of port-channel sub interface using SNMP.
CSCvj78647	mtu cli is disappeared from show run when interface dialer sh/no shu
CSCvj88138	VASI NAT: FTP ALG translation is sometimes failed
CSCvj88805	ASR1K - No kernel/coredump generated with watchdog reload event
CSCvj91448	PKI:-IP address parsing issue while printing the subject name if classless IP is used in Trustpoint

Caveat ID Number	Description
CSCvj92862	Viptela-netconf returns 255 length byte-stream chars instead of actual length for OSPFV2 Key-string
CSCvj94133	ASR1001-X : netconf interface goes into oper down state afer reboot tests
CSCvj95351	OSPF SR uloop : After issuing "clear ip ospf process". ospf process crashed.
CSCvk00446	BGP high CPU when config 256k vxlan static route
CSCvk02072	Hoot-n-holler multicast traffic marked with DSCP 0
CSCvk04614	ASR1K not reachable by Unicast on Port-Channel Sub interfaces when EVC + Sub-interface is configured
CSCvk07838	CUBE is using wrong source IP address to send SIP error
CSCvk10633	bgp crash while running show command and same time bgp peer reset
CSCvk12152	Unable to remove command 'ip nat inside destination'
CSCvk12448	ESP crash due to fatal error
CSCvk17777	ASR1001X - when using VRF NAT port used for ftp data is not freed
CSCvk23363	ASR1k PWLAN: Cisco-AVPair = remote-id-tag=5 missing after roaming
CSCvk24143	ASR1001-X crash due to free block at tty_handle
CSCvk26471	NG: Ping fails after cahanging Copper SFP to Fiber SFP on 1GE built-in interface.
CSCvk27007	MGCP status remains Down after IOS upgrade caused by CSCvh70570
CSCvk37875	High Availability system with two Voice Gateways - Crash
CSCvk53405	Router crash - AFW_application_process
CSCvk56331	Initial contact in IKEv1 phase 2 rekey (QM1) causes all crypto sessions to drop
CSCvk56356	NETCONF the IP routes with DHCP are not presented in a consistent way for rpc-reply
CSCvk60184	Random crash of data plane with SRTP-SRTP / SRTP-RTP load tests
CSCvk63706	Active RP3 hard oir can cause module to go UNKNOWN
CSCvk65354	Extension Mobility Not working when used with Greek locale on SIP CME
CSCvk66880	CUBE incorrectly fomats SIP SDP
CSCvk67137	Crash observed on ASR1002-X @ fnf_age_recalculate_record_len with AVC performance monitor config
CSCvk69075	No calls shown in output "show call active voice brief" on CUBE & stale entries are present

Caveat ID Number	Description
CSCvk69093	CUBE is not responding to SIP INFO
CSCvm02627	Incorrect Contact port 5060 used instead of 5061 by CUBE in "302 Moved Temporarily" message
CSCvm03744	"%FMFP-3-OBJ_DWNLD_TO_DP_FAILED:fman_fp_image:xxx" appears when configured "ip port-map" on ISR44xx.
CSCvm08571	Rework need on CSCvj59170 to support SDP parsing
CSCvm17883	Standby switch crashes when adding a host name to an object-group
CSCvm21219	Crash on Running "show vpdn tunnel summary" command.
CSCvm33871	ASRIK: ipv6 telnet session with vrf is failing
CSCvm51739	SNMP v3 discloses password in the parser warning syslog trap
CSCvm53491	SIP CME Crashes when Calling Shared Line
CSCvm56592	CME/BE4K: Corrupted config file for Auto Registered IP Phones after reload
CSCvm56670	ACL dropping packets after updating it - %CPPEXMEM-3-NOMEM
CSCvm57817	ASR1002-X crash due to ccp_cp_svr going into lockdown state.
CSCvm64545	ISSU:NetFlow not exporting flow resulting in new feature not working after ISSU.

Open Caveats—Cisco IOS XE Fuji 16.9.2

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the Open Bug Search.

Caveat ID Number	Description
CSCvj12370	cpp_cp_svr crash in bqs while running QMRT test tool.
CSCvj45781	QFP CGM Memory depletion during ISG session churn
CSCvk59169	Strict SID has NOT been enabled in ISIS segment-routing
CSCvm52543	Subscriber session hangs after the upgrade and reload
CSCvm61279	Crash under AFW_application_process with shared-line configuration
CSCvm76590	CUBE doesn't forward 200 OK in SRTP-RTP scenario with TCL script on Dial-peer
CSCvm91823	Self-generated NHRP packets are not remarked with DSCP value
CSCvm94788	Device reloads when applying #client <IP> vrf Mgmt-vrf server-key 062B0C09586D590B5656390E15
CSCvm95929	100FX OPNEXT SFP does not come up on ASR1001-X

Caveat ID Number	Description
CSCvn01894	ASR1k IF down/up happen when config "plim ethernet vlan filter disable" on GigabitEthernet interface
CSCvn02047	Configuring more than 5k NAT entries cause high CPU utilization even with no traffic.

Resolved Caveats—Cisco IOS XE Fuji 16.9.1

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#) through the Resolved Bug Search.

Caveat ID Number	Description
CSCux20847	R0/0: ASR1002-X kernel: bullseye_i2c_master_xfer Error Repeats Every Hour
CSCvh15933	Intel Security Issue: Microcode Update (current microcode versions: RP3 - 0x7000012, 1001-X - 0x2D, 1001-X/1002-X - 0x1F)
CSCvg05429	mcp_rommon: RP2 BIOS - Adjust TOLM based on PCIE HT FPGA address space size
CSCvb69966	Memory leak under LLDP Protocol process
CSCvd81374	Orthrus: FP 100 crashed when sending traffic around 55 MPPS with pkts size 64byte
CSCve57194	RSP3 crashes @ fillin_mempool_pc_array, mempool_pc_summary_tty
CSCvf19460	CTS Pac download fails with ISE reachability through loopback interface over vrf
CSCvf28977	ESP Crash with FP Switchover
CSCvf37923	Crash due to Stack overflow
CSCvf80363	rotate nginx access/error log files
CSCvg29615	RP3 - magic cookie written for power cycle as workaround for keepalive timeout crashes in loop
CSCvg31607	IPv4 PLU mtrie lookup return invalid oce_chain_p
CSCvg75315	ASR1K BGP scanner crash when change VRF and BGP configuration
CSCvg78770	Router resets while processing fragmented/encrypted packet
CSCvg83765	Tracebacks and Linux IOSD crash with sh vtp counters cmd
CSCvg94908	Mgig stack keeps crashing while configuring with Radius commands
CSCvh00630	ISRv/QOS - service-policy defined in bootstrap config may not be applied
CSCvh02516	Cannot add static route through dynamic NEMO tunnel interface
CSCvh12589	IPv4 DPI Hashing: default key-control not going to right bucket
CSCvh14715	CVLA crash on memory merge scan task

Caveat ID Number	Description
CSCvh21973	QFP crashed to while sending oversubscribe traffic.
CSCvh22775	SIP40 in slot 5 of ASR1013 when inserted ESP-200 in F1 by replacing ESP-40, showed ESI lock failure
CSCvh26560	ESP crashes with high scale QoS configuration
CSCvh28323	ASR1002HX FP Crash post LNS path switchover
CSCvh28859	Interoperability failure between some Fortitude Ports and some SmartJack cards
CSCvh29771	Kernel crash in ASR1002-HX during LNS path switchover
CSCvh29981	Suite-B Not Supported with ESP-200 on ASR1000-X Platform
CSCvh32416	Evaluation of all for CPU Side-Channel Information Disclosure Vulnerability
CSCvh53691	FP reload with IMGR deregister interface
CSCvh57050	IGMP multicast SSM-map with DNS doesn't work with IGMPv3
CSCvh57091	ESP crash when flapping interface with l2tp tunnels that have qos applied to the tunnels.
CSCvh57242	cpp-mcplo-ucode crash when layer 2 switching packet
CSCvh58702	Router crashes after interface flap where sessions get moved from one interface to another
CSCvh60525	CLI aaa common-criteria not available on IPBASEK9 license
CSCvh60871	Unexpected Reboot following show platform software adjacency oce [ID]
CSCvh61453	NULL remote_hostname from LAC
CSCvh64729	FP crash @cpp_qm_create_queue while adding fair-queue
CSCvh68810	16.8.1:dot1x Clients stops responding (ping to clinet IP fails) after 2nd SSO
CSCvh70297	Redundancy Mode None does not Sync
CSCvh70356	ASR1K - ECMP load-balance w/ DPI L2TP Tunnel visibility and QoS may generate ucode crash
CSCvh70557	CPP crash in MMA
CSCvh77637	isdn pri-group cause router get into a loop
CSCvh80485	cts pacs and cts credentials are lost after SSO
CSCvh83215	IOS-XE Voice NIM/PVDM Service-Engine Admin Down leads to one-way audio
CSCvh92275	QoS Overrides loadbalancing to per prefix even with only session level policing applied

Caveat ID Number	Description
CSCvh96821	ASR1004 started relaying clients DHCP Discover messages to DHCP Server with the wrong IP address
CSCvh97923	Erroneous fan failure indication on some units - Speed Racer (ASR1001-HX)
CSCvh97931	17112010 to fix incorrect fan status read by tach inputs to Reset FPGA - ASR1001-HX
CSCvi01745	cpp_cp_svr crashes, causing reload
CSCvi02816	ZBF not able to identify the WAAS optimized flow and drops ACK
CSCvi07387	ip dhcp excluded-address deletion issues via netconf
CSCvi08933	Crash processing MMA punt records
CSCvi10166	ASR1009-X/RP2:power supplies are seen as ASR1000X-FAN and Insufficient number of power supplies (0)
CSCvi11065	Router cpp_cp_svr process crashes at cpp_qm_event_parent_event_create
CSCvi12657	BQS pending deferred is stuck
CSCvi13062	FP cpp_cp_svr crash @cpp_bqs_srt_yoda_place_child
CSCvi14745	EPA-10X10GE or EPA-18X1GE - Memory leak with input mac-address accounting
CSCvi16454	Router crash due to PuntInject Keepalive Process - kmalloc failures
CSCvi21288	PFRv3 RC FIA is not enabled on interfaces with one of sub-interface with xconnect config
CSCvi21353	ASR1000X-AC-1100W PEM status displayed as "Unknown" in CCO-16.06.02 on 6X chassis
CSCvi22835	Vz: Non-Polaris to Polaris ISSU compatibility issue
CSCvi23169	ASR1006-X EPA card input errors
CSCvi24515	IOS-XE - FTP closing connection as NAT device does not process the 230 reply message
CSCvi24614	16.8.1: MKA session not coming up consistently after SSO and keepalive timeout.
CSCvi25507	Session Mgrd crash observed with 16.8.1 image
CSCvi27958	MIP100 get stuck in disconnecting state on FP reload
CSCvi28746	ASR1k @ "add-route" does not work with "ip nat outside static" statement under VRF
CSCvi31038	Interface on ASR1001-X will become down/down after shut/no shut
CSCvi34260	16.8.1:dot1x Clients stops responding (ping to client IP fails) after SSO (CSCvh68810) (PD changes)

Caveat ID Number	Description
CSCvi36290	Incorrect BDI configuration state shown by NETCONF on interface creation
CSCvi36351	standby rp crash on removing member link from port-channel
CSCvi36875	Restored DB is session-lock locked out with insane timeout after boot
CSCvi38391	H.245 messages are not translated by NAT outside when H.323 video call is initiated from Out-2-In
CSCvi48471	active SUP crash when active run 16.7.1 and standby run 3.18.2aSP
CSCvi49335	RBM-3-RBM_ERR: Returning from SISF handler as idb is NULL console error messages on FE node
CSCvi51398	ASR 1001-X Te0/0/1 link fails when AOC transceivers are used
CSCvi63840	vif interface counters do not increment with multicast service reflection on IOS-XE
CSCvi72480	Memory leak seen when having same src mac -address with different src ip address
CSCvi75086	Rapid TDL memory leak in SMD process leads to crash of active switch in stack for ipv6 clients
CSCvi86082	ASR1001-x crash due to wrong packet size
CSCvi86630	Crash due appnav SYN-ACK packets without a flow
CSCvi86983	ZBFW HA: active router stuck in cold standby state after shut no shut the wan interface
CSCvi97590	AppNav-XE cause delays for locally source traffic on router
CSCvj51510	Crash after service-policy APPNAV change on WAAS instance
CSCvj79542	Missing interface source template model

Open Caveats—Cisco IOS XE Fuji 16.9.1

All open bugs for this release are available in the [Cisco Bug Search Tool](#) through the Open Bug Search.

Caveat ID Number	Description
CSCuz74957	Router crashed due to stack corruption from buffer overflow
CSCve31475	SNMP dead loop @ipAddressIfIndex.ipv6z
CSCvg95562	CENT: branch MC crashed @ cent_pdp_msg_send_from_pickexit after CSCup19724
CSCvh96252	Memory leak on interface range shut/noshut (G.8032/MST)
CSCvi11914	BGP PIC/Max-paths:150K scale device stuck with pending issues with network changes
CSCvj09305	slow convergence when configuring ha-mode SSO for IPv6 peers

Caveat ID Number	Description
CSCvj28484	With AppNav controller source as loopback on ASR1K RP2 HA, AppNav state goes DOWN
CSCvj31705	ASR1k unexpected crash due to appNav .
CSCvj51510	Crash after service-policy APPNAV change on WAAS instance
CSCvj63450	router crashed with "%SYS-2-NOPROCESS: No such process 158 -Process= "SC CMM Recv Process"
CSCvj68607	ASR1K crash in tplus_handle_req_timeout
CSCvj76285	Snmp v2 breaks due to Authentication failure, bad community string, 16.03.06
CSCvj79145	[UniScale]CSRs failed to scale upto desired NAT64 stateful Dynamic translations
CSCvj79694	sgt-map gets cleared for some of the end points for unknown reason
CSCvj81382	IPv6 AAA Prefix Support for 3rd party PPP clients no password for -dhcpv6 Access-Request
CSCvj82886	FNF export not working after second switchover when ETA+FNF is configured
CSCvj83704	Synchronization of built-in interface templates broken or never implemented
CSCvj84104	PLR channel is not muted for some time
CSCvj87427	Performance problems when configuring via CLI when netconf/restconf/gnmi is enabled
CSCvj88805	ASR1K - No kernel/coredump generated with watchdog reload event
CSCvj92548	CSR1k-FlexVPN: Spoke to Spoke: Implicit NHRP entry due to expired resolution request handling.
CSCvj93816	Crash in ssh_process when removing pnp profile from switch
CSCvk00843	DCA traffic-classes get controlled over blackhole path
CSCvk04614	ASR1K not reachable by Unicast on Port-Channel Sub interfaces when EVC + Sub-interface is configured
CSCvk12152	Unable to remove command 'ip nat inside destination'
CSCvk12448	ESP crash due to fatal error
CSCvk20003	Polaris: Host limit of 32 for session monitoring sessions
CSCvk24143	ASR1001-X crash due to free block at tty_handle
CSCvk29063	Crash when doing a new SSL Connection.
CSCvk30813	MAB fails to start negotiation after device moves to another layer 2 adjacent switch
CSCvk31079	MPLS TE + MLDP - TTL issue

Caveat ID Number	Description
CSCvk32822	QoS stats process crash
CSCvk36507	Fman-fp in one c9300 crashed unexpectedly and took down the rest of stack members without failover
CSCvk37852	IOS/IOS-XE 16.6.3 - SSH on VRF int is allowed irrespective of vrf-also key

Related Documentation

Platform-Specific Documentation

For information about associated services and modules in Cisco ASR 1000 Series Aggregation Services Routers, see: [Documentation Roadmap for Cisco ASR 1000 Series, Cisco IOS XE 16.x Releases](#).

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

