

# Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Fuji 16.8.x

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## About Cisco ASR 1000 Series Aggregation Services Routers



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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 16.8.1

No new hardware features were introduced for Cisco ASR 1000 Series in Cisco IOS XE Fuji 16.8.1.

## New Software Features in Cisco IOS XE Fuji 16.8.1

The following are the new software features introduced in Cisco ASR 1000 Series Aggregation Services Routers for Cisco IOS XE Fuji 16.8.1.

### Ability to use Suite B Algorithms with IKEv2 with registration interface

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_getvpn/configuration/xe-16-8/sec-get-vpn-xe-16-8-book/sec-get-vpn-suiteb.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_getvpn/configuration/xe-16-8/sec-get-vpn-xe-16-8-book/sec-get-vpn-suiteb.html)

### Advertise IPv6 link endpoint information

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute\\_isis/configuration/xe-16-8/irs-xe-16-8-book/irs-is-is-advertise-ipv6-link-endpoint-info.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_isis/configuration/xe-16-8/irs-xe-16-8-book/irs-is-is-advertise-ipv6-link-endpoint-info.html)

### Anti-replay QoS/IPSec packet loss avoidance

For detailed information, see the following Cisco document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_dplane/configuration/xe-16-8/sec-ipsec-data-plane-xe-16-8-book/sec-ipsec-antireplay.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_dplane/configuration/xe-16-8/sec-ipsec-data-plane-xe-16-8-book/sec-ipsec-antireplay.html)

### Clear PPP sessions per VRF

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/bbds/command/bba-cr-book/bba-a1.html>

### Direct Cloud Access

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/pfrv3/configuration/xe-16-8/pfrv3-xe-16-8-book.html>

### Full range support for multiple protocols/ports

For detailed information, see the following Cisco document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr/command/ipaddr-cr-book/ipaddr-i3.html>

### G-IKEv2 enhancement for GETVPN

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_getvpn/configuration/xe-16-8/sec-get-vpn-xe-16-8-book/sec-get-vpn-gikev2.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_getvpn/configuration/xe-16-8/sec-get-vpn-xe-16-8-book/sec-get-vpn-gikev2.html)

### Increase NAT session scale

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr\\_nat/configuration/xr-16-8/nat-xr-16-8-book/iadnat-cgn.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/xr-16-8/nat-xr-16-8-book/iadnat-cgn.html)

### **Increase the number of aaa authorization configuration**

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/security/a1/sec-a1-cr-book.html>

### **Install: Auto Upgrade for ASR1k**

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/routers/asr1000/configuration/guide/chassis/xr-16-8/asr1000-software-config-guide-16-8/install-issu-asr.html>

### **IPv6 enablement - Inline Tagging and Caching**

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_usr\\_cts/configuration/xr-16-8/sec-usr-cts-xr-16-8-book/sec-cts-sgACL.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_cts/configuration/xr-16-8/sec-usr-cts-xr-16-8-book/sec-cts-sgACL.html)

### **IPv6 enablement - SGACL Enforcement**

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_usr\\_cts/configuration/xr-16-8/sec-usr-cts-xr-16-8-book/sec-cts-sgACL.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_cts/configuration/xr-16-8/sec-usr-cts-xr-16-8-book/sec-cts-sgACL.html)

### **L2 EVPN Phase 3**

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp\\_l2\\_vpns/configuration/xr-16-8/mp-l2-vpns-xr-16-8-book/evpn-single-homing.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l2_vpns/configuration/xr-16-8/mp-l2-vpns-xr-16-8-book/evpn-single-homing.html)

### **Line command access class VRF awareness**

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/bbdsI/configuration/xr-16-8/bba-xr-16-8-book/bba-vrf-aware-access-class-line.html>

### **MACsec Extended Packet Numbering (XPN)**

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/macsec/configuration/xr-16-8/macsec-xr-16-8-book/wan-macsec-mka-support-enhance.html>

### **Model-Driven Telemetry**

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b\\_168\\_programmability\\_cg/model-driven\\_telemetry.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b_168_programmability_cg/model-driven_telemetry.html)

**Paired Address Pooling Enhancement**

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr\\_nat/configuration/xe-16-8/nat-xe-16-8-book/iadnat-addr-pool.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/xe-16-8/nat-xe-16-8-book/iadnat-addr-pool.html)

**Proactive NAT44 pool exhaustion alerts**

For detailed information, see the following Cisco documents:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr\\_nat/configuration/xe-16-8/nat-xe-16-8-book/pool-exhaustion-alerts.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/xe-16-8/nat-xe-16-8-book/pool-exhaustion-alerts.html)

**RSVP-TE protection via SR TI-LFA**

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg\\_routing/configuration/xe-16-8/segrt-xe-16-8-book/sr-rsvp-te-protection-using-sr-te-autotunnel.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-8/segrt-xe-16-8-book/sr-rsvp-te-protection-using-sr-te-autotunnel.html)

**Safe/Unsafe path Algorithm #3 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-16-8/segrt-xe-16-8-book/sr-smlsbfd-sspf.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-8/segrt-xe-16-8-book/sr-smlsbfd-sspf.html)

**Scripting: Python 2.7/3.0**

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b\\_168\\_programmability\\_cg/cli\\_python\\_module.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b_168_programmability_cg/cli_python_module.html)

**Serviceability of UTD Features**

For detailed information, see the following Cisco document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_data\\_utd/configuration/xe-16-8/sec-data-utd-xe-16-8-book.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_utd/configuration/xe-16-8/sec-data-utd-xe-16-8-book.html)

**Support SPAN on Drop for Packets Dropped via the Forwarding Pipeline**

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/lanswitch/configuration/xe-16-8/lanswitch-xe-16-8-book/lsw-conf-erspan.html>

**Umbrella connector infra enablement for DCA for ASR1K Fixed platforms**

For detailed information, see the following Cisco document:

[http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_data\\_umbrbran/configuration/xe-16-8/sec-data-umbrella-branch-xe-16-8-book/sec-data-umbrella-dca.html](http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_umbrbran/configuration/xe-16-8/sec-data-umbrella-branch-xe-16-8-book/sec-data-umbrella-dca.html)

### Visibility Enhancements

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_data\\_utd/configuration/xs-16-8/sec-data-utd-xe-16-8-book/snort-ips.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_utd/configuration/xs-16-8/sec-data-utd-xe-16-8-book/snort-ips.html)

### VRF Support for Export of Encrypted Traffic Analytics

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_data\\_eta/configuration/xs-16-8/sec-data-encrypted-traffic-analytics-xe-16-8-book.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_eta/configuration/xs-16-8/sec-data-encrypted-traffic-analytics-xe-16-8-book.html)

### VXLAN Fragment UDP Source Port

For detailed information, see the following Cisco document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/xs-16-8/ce-xe-16-8-book/vxlan-gpe-tunnel.html>

### Zero Touch Provisioning

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b\\_168\\_programmability\\_cg/zero\\_touch\\_provisioning.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b_168_programmability_cg/zero_touch_provisioning.html)

### Zero Touch Provisioning - Opera Compliance

For detailed information, see the following Cisco document:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b\\_168\\_programmability\\_cg/zero\\_touch\\_provisioning.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/168/b_168_programmability_cg/zero_touch_provisioning.html)

## 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](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](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](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

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- 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:

- a) 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.
- b) 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 <a href="#">Bug Search Tool Help and FAQ</a> .
Rating	The rating assigned to the bug by users of the <a href="#">Cisco Bug Search Tool</a> .
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 16.8.x

### Resolved Caveats—Cisco IOS XE Fuji Release 16.8.2

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

Caveat ID Number	Description
<a href="#">CSCuz14861</a>	IOS-XE Fails to correctly populate RTCP SSRC Field
<a href="#">CSCvd81374</a>	Orthrus: FP 100 crashed when sending traffic around 55 MPPS with pkts size 64byte
<a href="#">CSCvf07576</a>	router reloaded when doing show BGP RT filter routes

Caveat ID Number	Description
<a href="#">CSCvf29213</a>	PFRV3: Site Prefix shows unreachable after removing and adding the specific route for the prefix
<a href="#">CSCvf98378</a>	IOSXE_INFRA-6-PROCPATH_CLIENT_HOG: IOS shim client 'fman stats bipc' has taken xx msec
<a href="#">CSCvg29037</a>	Traceback is observed during mid-call media IP and port change
<a href="#">CSCvg62161</a>	Prefix SID delete after SSO.
<a href="#">CSCvh28323</a>	ASR1002HX FP Crash post LNS path switchover
<a href="#">CSCvh29771</a>	Kernel crash in ASR1002-HX during LNS path switchover
<a href="#">CSCvh57108</a>	CPUHOG on QoS statistics collection for DMVPN. QoS crash with DMVPN/NHRP.
<a href="#">CSCvh57657</a>	NAT MIB not populated when using traditional NAT
<a href="#">CSCvh75132</a>	CPP crash stuck thread detected multikey_hash_replace_int
<a href="#">CSCvh82112</a>	Polaris Routers - Memory leak under process RECMSPAPP in IOSd
<a href="#">CSCvh83319</a>	Interop vrrp doesnt work between cedge and vedge
<a href="#">CSCvh85788</a>	Local LAN-only prefix present in master route-import table but not present in site prefix DB
<a href="#">CSCvh92275</a>	QoS Overrides loadbalancing to per prefix even with only session level policing applied
<a href="#">CSCvh92861</a>	16.9: ASR1K: ISIS SR:Traffic Engineering Tunnel is not coming up after RP switchover
<a href="#">CSCvh95376</a>	ASR1k reloaded after IPv4 RR stress test
<a href="#">CSCvh97923</a>	Erroneous fan failure indication on some units - Speed Racer (ASR1001-HX)
<a href="#">CSCvi01558</a>	iBGP dynamic peer using TTL 1
<a href="#">CSCvi01745</a>	cpp_cp_svr crashes, causing reload
<a href="#">CSCvi06312</a>	Subsystem stopped: ios-emul-oper-db due to bgp table issue
<a href="#">CSCvi08303</a>	Standby RP Reloads due to Config Sync Failure When Applied Service-insertion WAAS on Physical Int
<a href="#">CSCvi08470</a>	OSPF: process crashed when the interface priority is configured for 0.
<a href="#">CSCvi10166</a>	ASR1009-X/RP2:power supplies are seen as ASR1000X-FAN and Insufficient number of power supplies (0)
<a href="#">CSCvi11065</a>	Router cpp_cp_svr process crashes at cpp_qm_event_parent_event_create
<a href="#">CSCvi12657</a>	BQS pending deferred is stuck
<a href="#">CSCvi13062</a>	FP cpp_cp_svr crash @cpp_bqs_srt_yoda_place_child



Caveat ID Number	Description
<a href="#">CSCvi14745</a>	EPA-10X10GE or EPA-18X1GE - Memory leak with input mac-address accounting
<a href="#">CSCvi21288</a>	PFRv3 RC FIA is not enabled on interfaces with one of sub-interface with xconnect config
<a href="#">CSCvi21353</a>	ASR1000X-AC-1100W PEM status displayed as "Unknown" in CCO-16.06.02 on 6X chassis
<a href="#">CSCvi25380</a>	Cisco IOS XE Software Authent., Author., and Accounting Login Authent. Remote Code Execution Vuln.
<a href="#">CSCvi26061</a>	RP crash @policymap_associated_to_multiple_instances
<a href="#">CSCvi27958</a>	MIP100 get struck in disconnecting state on FP reload
<a href="#">CSCvi35232</a>	CME/BE4K crashes when trying to check help command for new device type BEKEM
<a href="#">CSCvi36875</a>	Restored DB is session-lock locked out with insane timeout after boot
<a href="#">CSCvi44988</a>	C1111-8P: random commands may trigger TACACS+ to crash
<a href="#">CSCvi48471</a>	active SUP crash when active run 16.7.1 and standby run 3.18.2aSP
<a href="#">CSCvi51398</a>	ASR 1001-X Te0/0/1 link fails when AOC transceivers are used
<a href="#">CSCvi54878</a>	Memory leaks seen at PKI_name_list_add(0xa139cc0)+0x3e
<a href="#">CSCvi62764</a>	OSPF SSPF/SRTE: absolute value configured for the SRTE tunnel not configured by OSPF.
<a href="#">CSCvi65958</a>	Standby RP crashes due to Memory usage in ospf_insert_multicast_workQ
<a href="#">CSCvi66343</a>	ASR1K Datapath is not passing CTS tagging over PfrV3 auto-tunnel with "cts sgt inline"
<a href="#">CSCvi72480</a>	Memory leak seen when having same src mac -address with different src ip address
<a href="#">CSCvi72996</a>	NMR TTL is wrongly considering eid-record of 0.0.0.0/0 for its calculation
<a href="#">CSCvi74088</a>	link local multicast packets are received when the SVI is in down state
<a href="#">CSCvi83419</a>	Router crash when removing route-target and with hard clear
<a href="#">CSCvi91714</a>	IPv6 address not assigned or delayed when RA Guard is enabled
<a href="#">CSCvi95775</a>	Reverse-tunnel routes under PMIPv6 MAG config not using configured distance metric
<a href="#">CSCvi96450</a>	Router crashed when lsp-mtu is changed
<a href="#">CSCvi98373</a>	msmr+xtr carsh during scale wireless roaming
<a href="#">CSCvj02081</a>	CPP crash on L2TP router
<a href="#">CSCvj41224</a>	Crash when doing SNMP walk and applying QOS over a GRE tunnel

Caveat ID Number	Description
<a href="#">CSCvj49476</a>	Telnet Sessions Hang/Become unavailable at execution of "show run"
<a href="#">CSCvj52681</a>	dynamic vlan assignment causes all siff entires under the port to be deleted
<a href="#">CSCvj67042</a>	LAN Switches does not learn the right ED upon OTV failover
<a href="#">CSCvj71845</a>	Backup path incorrect for ring topology where high ISIS cost is configured on 1 link.
<a href="#">CSCvj73544</a>	ospf routing loop for external route with multiple VLINKs/ABRs
<a href="#">CSCvj78083</a>	Path of Last Resort Sending Probes in Standby State
<a href="#">CSCvj84104</a>	PLR channel is not muted for some time
<a href="#">CSCvj90089</a>	Crash while doing a conference call
<a href="#">CSCvj95351</a>	OSPF SR uloop : After issuing "clear ip ospf process". ospf process crashed.
<a href="#">CSCvk00446</a>	BGP high CPU when config 256k vxlan static route
<a href="#">CSCvk04614</a>	ASR1K not reachable by Unicast on Port-Channel Sub interfaces when EVC + Sub-interface is configured
<a href="#">CSCvk12448</a>	ESP crash due to fatal error
<a href="#">CSCvk24143</a>	ASR1001-X crash due to free block at tty_handle
<a href="#">CSCvk26471</a>	NG: Ping fails after cahanging Copper SFP to Fiber SFP on 1GE built-in interface.
<a href="#">CSCvk37875</a>	High Availability system with two Voice Gateways - Crash
<a href="#">CSCvk50734</a>	Device Tracking - Memory leak observed with IPv6 NS/NA Packets .
<a href="#">CSCvk52495</a>	IP SLA multicast appear as "Unknown"
<a href="#">CSCvk66880</a>	CUBE incorrectly fomats SIP SDP
<a href="#">CSCvk69093</a>	CUBE is not responding to SIP INFO
<a href="#">CSCvm32630</a>	Crash due to out-of-memory condition Memory leak@CENT-BR-0
<a href="#">CSCvm33871</a>	ASR1K: ipv6 telnet session with vrf is failing

## Open Caveats—Cisco IOS XE Fuji Release 16.8.2

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

Caveat ID Number	Description
<a href="#">CSCvi28746</a>	ASR1k @ "add-route" does not work with "ip nat outside static" statement under VRF
<a href="#">CSCvj71660</a>	IKEv2 IPsec Tunnel stops passing traffic after 2 days, Tunnel remains up
<a href="#">CSCvj78876</a>	CUBE: FPI Hung Sessions and Provisioning Failures observed in Standby CUBE

Caveat ID Number	Description
<a href="#">CSCvk02773</a>	Standby crashed when defaulting vlan config reconfig vlan config with fnf/et-analytics
<a href="#">CSCvk17777</a>	ASR1001X - when using VRF NAT port used for ftp data is not freed
<a href="#">CSCvk63706</a>	Active RP3 hard oir can cause module to go UNKNOWN
<a href="#">CSCvk71907</a>	Adaptive QOS : Target shape rate is set to floor rate when lower floor and ceiling rates are used
<a href="#">CSCvm01420</a>	CUBE crashes at sipSPI_ipip_vcc_CheckCodecSetType
<a href="#">CSCvm03537</a>	ASR1k: TTL matching ACL not working
<a href="#">CSCvm12840</a>	FNF ucode crash
<a href="#">CSCvm20374</a>	Polaris Router - CPUHog - SNMP ENGINE crashed with Watchdog timeout
<a href="#">CSCvm27109</a>	DHCP Relay not working after power outage
<a href="#">CSCvm42441</a>	ASR 1001-X reboots when clearing ip nat translations
<a href="#">CSCvm44488</a>	ASR1001-HX 10GE SFP+ ports may operate as 1000Mbps
<a href="#">CSCvm45589</a>	The initial IVR is not played when using custom BACD script in ISR4K
<a href="#">CSCvm51112</a>	"clear crypto sa vrf MyVrf" triggers crash after updating pre-shared-keys
<a href="#">CSCvm52476</a>	FMFP-3-OBJ_DWNLD_TO_DP_FAILED: errors related to ess stats seen
<a href="#">CSCvm55465</a>	BGP updates missing ISIS advertising-bits led to LDP label purge on peer.
<a href="#">CSCvm56592</a>	CME/BE4K: Corrupted config file for Auto Registered IP Phones after reload
<a href="#">CSCvm56756</a>	QFP-ucode crash on Tunnel removal
<a href="#">CSCvm57817</a>	ASR1002-X crash due to ccp_cp_svr going into lockdown state.

### Resolved Caveats—Cisco IOS XE Fuji 16.8.1

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

Caveat ID Number	Description
<a href="#">CSCux34024</a>	ESP40: Severity actions errors: Does not reload ESP
<a href="#">CSCsd58148</a>	%SEC_LOGIN-4-LOGIN_FAILED does not show username in [user: ]
<a href="#">CSCus83515</a>	Unable to verify files on stby-bootflash: filesystem.
<a href="#">CSCuv47069</a>	DHCP crashed when configure a manual binding in an interface
<a href="#">CSCux20847</a>	R0/0: ASR1002-X kernel: bullseye_i2c_master_xfer Error Repeats Every Hour
<a href="#">CSCuy74937</a>	ASR1k: upgrade rom-monitor filename flash: returns "Invalid File"

Caveat ID Number	Description
<a href="#">CSCvc48752</a>	VPDN not switching traffic to new path after link failover or routing protocol convergence
<a href="#">CSCvc86691</a>	When dot1x critical eapol is configured, switch sends EAP failure instead of Success
<a href="#">CSCvd11419</a>	Configuring Packet tracer on IOS-XE triggers a crash intermittently
<a href="#">CSCvd63476</a>	Changing autoneg setting on ASR1K cause link failure on subsequent link flap (connected to 2960XR)
<a href="#">CSCve15722</a>	The second and later Pfrv3 VRF configs are missing after reload
<a href="#">CSCve35209</a>	16.6:Kignpin @ Kernal errors kernel-source/kernel/softirq.c:150 __local_bh_enable_ip+0x3b/0x9c()
<a href="#">CSCve53263</a>	Configured Speed/Duplex are not supported on Mgmt Eth port
<a href="#">CSCve54486</a>	Crash when attempting to assign nonexistent/shutdown VLAN to 802.1x port
<a href="#">CSCve57194</a>	RSP3 crashes @ fillin_mempool_pc_array, mempool_pc_summary_tty
<a href="#">CSCvf19274</a>	Observing memory leaks in AAA_MALLOC_LITE after scale test
<a href="#">CSCvf33000</a>	Add CLI command to block SNMP report for "unknownSnmpEngineID" when SNMP ACL is configured.
<a href="#">CSCvf33166</a>	SD-AVC: %% NBAR Error: Cache synchronization import
<a href="#">CSCvf38703</a>	ESP40 crashing after migrating from Vlan-based load balancing to Flow-based with QOS
<a href="#">CSCvf41666</a>	ISG: IWAG-GTP has conflicting lease-time value in DHCPOFFER versus DHCPACK
<a href="#">CSCvf56355</a>	crash at tbl_cdp_oper_st_cdp_oper_free_and_set_field
<a href="#">CSCvf60179</a>	OSPF SID Redist: When same prefix advertised by OSPF and ISIS, handling of labels in-correct.
<a href="#">CSCvf65522</a>	ESP crashed - double_exception_has_occured - malformed PIM packet over GRE tunnel & ERR_DTL_INV_ADDR
<a href="#">CSCvf66860</a>	IOS crash in SOCK TCP Test Server process
<a href="#">CSCvf68261</a>	Crash when printing IPSEC anti-replay error
<a href="#">CSCvf71358</a>	NBAR First Packet Classification fails with AppNav enabled
<a href="#">CSCvf76101</a>	First drop error cause Tracebacks observed with IWAN stress
<a href="#">CSCvf76512</a>	option 82 circuit-id-tag restricted by 6 bytes
<a href="#">CSCvf76514</a>	Backout CSCvf37495, since last commit has bugs in it

Caveat ID Number	Description
<a href="#">CSCvf76535</a>	B2B NAT HA: Stale NAT translations stuck on primary router after communication loss with standby
<a href="#">CSCvf77618</a>	Recommit: ASR1006-X memory leak fman_rp after sending 100,000,0 ARP entries
<a href="#">CSCvf77644</a>	ASR1000 Interface may be unusable due to an error deleting previous configs
<a href="#">CSCvf77864</a>	Inline Tagging FIA is not installed properly
<a href="#">CSCvf78767</a>	add-route not working for dynamic outside NAT pool
<a href="#">CSCvf80163</a>	ASR1K crashes due to crypto microcode with no corefile/crashinfo
<a href="#">CSCvf81650</a>	ASR1K encryption processor cores written to tracelogs
<a href="#">CSCvf81695</a>	ASR1K encryption processor trace file is not valid
<a href="#">CSCvf82436</a>	AVC-EZPM: Cannot get netflow records for media traffic using application-performance ezPM profile
<a href="#">CSCvf84340</a>	IOS crash when logging rx dsp ctrl message out_of_sequence count syslog
<a href="#">CSCvf84482</a>	ASR1001-X 10GE built-in ports cannot be enabled using Smart Licensing
<a href="#">CSCvf85386</a>	Incorrect counters in output of "show macsec statistics"
<a href="#">CSCvf86185</a>	NIM-SSD: Inventory of disk0 and disk1 are interchanged on Polaris 16.x
<a href="#">CSCvf86462</a>	Recommitx2: ASR1006-X memory leak fman_rp after sending 100,000,0 ARP entries
<a href="#">CSCvf87437</a>	High memory utilization in the QFP of QM RM process.
<a href="#">CSCvf90066</a>	ASR1K RP2 crash due to CPUHOG occurred by arp input process infinite loop
<a href="#">CSCvf90614</a>	ASR1k :Show interface shows broadcast packets count as zero
<a href="#">CSCvf92182</a>	show platform software rg f0 services rg-id 1 verbose shows network address backwards
<a href="#">CSCvf94558</a>	SNMPv3 authPriv option is missing for CLI.
<a href="#">CSCvf94948</a>	Input policy-map classify traffic incorrectly - ISR4331
<a href="#">CSCvf95046</a>	Add uncompressed TCAM key with tcp flags to QoS feature
<a href="#">CSCvf95141</a>	ZBF crashes on standby
<a href="#">CSCvg00696</a>	Throughput configuration cli should log the message "write mem and reload" instead of just relaod
<a href="#">CSCvg01760</a>	Traceback-CPUHog seen on the device
<a href="#">CSCvg03498</a>	"copy run start all" makes the router stuck

Caveat ID Number	Description
<a href="#">CSCvg03981</a>	IOS-XE NAT: IP header of tunneled traffic is translated twice (in inner and outer header)
<a href="#">CSCvg05599</a>	Router does not recalculate UDP checksum after NAT
<a href="#">CSCvg16357</a>	Copying file larger than 2GB to FTP destination fails with "Invalid argument" (revisit CSCug41449)
<a href="#">CSCvg17971</a>	ASR1k ESP may crash after a switchover if IPsec configured
<a href="#">CSCvg19203</a>	SBC re-latch does not work as expected in case of ipv4 mask/0
<a href="#">CSCvg19671</a>	ASR1K not dropping frames with unknown MAC when EVC + Sub-interface is configured
<a href="#">CSCvg20200</a>	Polaris: Crash observed while client association with key-wrap enabled in controller.
<a href="#">CSCvg22970</a>	SNMP Status on E1 Serial interfaces not correct
<a href="#">CSCvg23820</a>	CTS PAC download fails with VRF config on non-management interface
<a href="#">CSCvg24428</a>	CISP frame type length is inverted
<a href="#">CSCvg25874</a>	Toggling the switchport then default the interface, load-interval config reapplied
<a href="#">CSCvg26073</a>	QFP Memory leak in cpp_cp_svr with CPP List Hdr Chunk
<a href="#">CSCvg28614</a>	ISR4k dialer interface traceroute is abnormal although communication is OK
<a href="#">CSCvg29105</a>	asr1k: Gec 5 tuple feature not working in IOS-XE releases post 16.4.1
<a href="#">CSCvg29349</a>	16.7:ASR1K: With Nat CGN mode, ALG, ZBFW and NBAR verifications failing in B2B internet edge profile
<a href="#">CSCvg30722</a>	EAPTLS:- Session manger crashing with MKA/EAPTLS session bring up with newly installed certificates.
<a href="#">CSCvg31373</a>	ISR4k Error Msg (SYS-2-CHUNKEXPANDFAIL: Could not expand chunk pool for ASR1000 SPA TDL)
<a href="#">CSCvg31380</a>	SMD Experiences an Unexpected Reset When Executing "show aaa clients"
<a href="#">CSCvg31607</a>	IPv4 PLU mtrie lookup return invalid oce_chain_p
<a href="#">CSCvg31929</a>	Extended the retries on UCSE before NGIO control packet loss is detected
<a href="#">CSCvg32153</a>	Poch interface is reporting weird drops even though there is no actual drop
<a href="#">CSCvg33403</a>	Incoming call fails with 'Lower layer disconnected call cause=47' error caused by T.38 calls
<a href="#">CSCvg33454</a>	Pass load balancing information in IP header to container
<a href="#">CSCvg33941</a>	Netflow does not count the amount of traffic correctly

Caveat ID Number	Description
<a href="#">CSCvg34034</a>	Te0/0/0 or Te0/0/1 shows up/up without cable
<a href="#">CSCvg34986</a>	Media recording on IOS-XE does not work if a refer is received immediately after the call is answered
<a href="#">CSCvg35550</a>	Netflow cannot add anymore cache entries after some events
<a href="#">CSCvg36246</a>	SM-X-ES3s port connected to Ethernet-Internal x/0/0 always become block port.
<a href="#">CSCvg36598</a>	ISAKMP Fails When Multiple HSRP tunnel/SVTI Interfaces Configured
<a href="#">CSCvg36853</a>	16.7: ASR1K: Traffic flow failing with overlay multicast configs
<a href="#">CSCvg38313</a>	both ESP100 crashed when the ATM interface input QOS configure is applied
<a href="#">CSCvg38872</a>	Crash observed while sending 40K 4Kb pkt size html session with ETA configured on ESP 100
<a href="#">CSCvg39934</a>	SL mode, unthrottled configuration and reload without saving puts the system in inconsistent state.
<a href="#">CSCvg40784</a>	session not coming up after certificate expired
<a href="#">CSCvg41950</a>	Cisco IOS XE Software Diagnostic Shell Path Traversal Vulnerability
<a href="#">CSCvg42042</a>	crash seen on clearing "ip nat translation" while also doing show "ip nat translation"
<a href="#">CSCvg42410</a>	A router may lose its ip address configuration after an interface shutdown
<a href="#">CSCvg43385</a>	Radius and Radacct port is open, after aaa config is deleted. sanet1.0
<a href="#">CSCvg46973</a>	ASR1K -LNS ESP crash after failing/flapping TeGig interfaces
<a href="#">CSCvg50595</a>	IPV6 needs to be enabled under interface in order to configure ipv6 dhcp relay Polaris releases.
<a href="#">CSCvg52012</a>	ARP request in not triggered in half-duplex VRF with the additional VRF
<a href="#">CSCvg52687</a>	quiet mode exit does not re-apply "vrf-also" to config.
<a href="#">CSCvg56518</a>	ASR920 / ASR1k: PING MIB not returning results / Counter 32 = 0
<a href="#">CSCvg56727</a>	crashes with server-key command using key of 128 characters or more
<a href="#">CSCvg57715</a>	TC cannot be learnt when the traffic ingress interface is changed from auto-tunnel to physical intf
<a href="#">CSCvg60135</a>	ASR1000 resets unexpectedly with reason as LocalSoft on Polaris Release
<a href="#">CSCvg60288</a>	Device IP address AV pair replaced with 192.168.1.5
<a href="#">CSCvg65632</a>	CPP 0 failure Stuck Thread resulting in Unexpected Reboot
<a href="#">CSCvg66077</a>	Default static smartport macros are not presented on 3850 running 16.x.x version

Caveat ID Number	Description
<a href="#">CSCvg67820</a>	HIGH CPU observation on FMAN RP ESS EVENT TRACING
<a href="#">CSCvg68425</a>	16.7: ASR1K: fman_fp and ucode core files seen with b2b_internet_edge profile
<a href="#">CSCvg69882</a>	Commit Missing Diff in CSCvg40784
<a href="#">CSCvg71581</a>	hub BR gets crashed after issue "show domain iwan border channels" following with border shutdown
<a href="#">CSCvg72960</a>	ASR1K - LNS node de-aggregation w/ POLARIS image
<a href="#">CSCvg75321</a>	snmpwalk lldpmib on cBR8 could cause OID loop when lldp enabled
<a href="#">CSCvg75380</a>	Polaris 16.3.5: Unexpected Reboot with Device Classifier enabled
<a href="#">CSCvg76739</a>	Install remove inactive removes the image in use in bundle mode
<a href="#">CSCvg77128</a>	ASR1009-X FAN SN in show inventory display incorrectly after replace the FAN and do RP switchover
<a href="#">CSCvg77410</a>	qos/cce AOM pending batch ack due to BQS pending config
<a href="#">CSCvg80873</a>	Reply L2TP ZLB does not have tunnel ID of Assigned Tunnel ID AVP in StopCCN
<a href="#">CSCvg82770</a>	evc not work under vlan on TSN platform
<a href="#">CSCvg84039</a>	Traceback: Crash on WAAS menu prompt for WAN Interface
<a href="#">CSCvg85135</a>	Idle Timeout Direction (inbound) is ignored when it is sent before timeout value
<a href="#">CSCvg87048</a>	Few Stale session are observed during vpdn longevity
<a href="#">CSCvg88843</a>	NBAR might not move to bypass
<a href="#">CSCvg89742</a>	Incorrect pass-through statistics seen during soak run
<a href="#">CSCvg89855</a>	ESP crashed - cpp_cp failed in cpp_qm_event_proc_defer_parent_event
<a href="#">CSCvg90005</a>	remove Smartinstall related subsystems from polaris based switch-lite image.
<a href="#">CSCvg92393</a>	IOMD log file filled with info message "(note): sendmsg retval "
<a href="#">CSCvg93355</a>	ASR1K SSL VPN CLI Should Be Blocked
<a href="#">CSCvg93473</a>	IOSd crash due to segfault in show_snmp
<a href="#">CSCvg94908</a>	Mgig stack keeps crashing while configuring with Radius commands
<a href="#">CSCvg96936</a>	IOS-XE : PAT entry using the same port which is configured for static NAT
<a href="#">CSCvh00038</a>	Device IP address AV pair replaced with 192.168.1.5
<a href="#">CSCvh00742</a>	QoS queuing update not applied to queue
<a href="#">CSCvh02294</a>	ISR4K SW MTP configured as TRP does not relay sRTCP messages



Caveat ID Number	Description
<a href="#">CSCvh02516</a>	Cannot add static route through dynamic NEMO tunnel interface
<a href="#">CSCvh04245</a>	TDM-IP, QoS marking is varying to 0 and EF for the same RTP stream
<a href="#">CSCvh08380</a>	LLDP attributes are not seen in accounting messages during config changes
<a href="#">CSCvh14580</a>	Router Crashes on command show ip dhcp vrf <vrf name > binding remembered
<a href="#">CSCvh15305</a>	"ip access-list resequence" causing crash on CBR-8
<a href="#">CSCvh20041</a>	UDP SLA Probes not working through PMIPv6 tunnel with GETVPN
<a href="#">CSCvh22589</a>	Does not work preempt timer due to old HSRP Hello packet get just after interface up
<a href="#">CSCvh23735</a>	CSR1000v HA vCUBE IP-4-DUPADDR detected after Active router goes down.
<a href="#">CSCvh26277</a>	T38 Faxes Fail Going IP to PRI When Coming From A BDI with DOT1Q Tagging
<a href="#">CSCvh26560</a>	ESP crashes with high scale QoS configuration
<a href="#">CSCvh26828</a>	Crash in SNMP ENGINE when polling lldpRemChassisId object
<a href="#">CSCvh28859</a>	Interoperability failure between some Fortitude Ports and some SmartJack cards
<a href="#">CSCvh29003</a>	Making SYSTEM MIB (1.3.6.1.2.1.1) VRF aware for ASR 1001-X
<a href="#">CSCvh29981</a>	Suite-B Not Supported with ESP-200 on ASR1000-X Platform
<a href="#">CSCvh32416</a>	Evaluation of all for CPU Side-Channel Information Disclosure Vulnerability
<a href="#">CSCvh51205</a>	In B2B HA, active box is not generating syslog alert for watermark high/low value.
<a href="#">CSCvh53691</a>	FP reload with IMGR deregister interface
<a href="#">CSCvh54813</a>	Output Qos policy is removed from Dialer interface after reloading the device if input policy exists
<a href="#">CSCvh57091</a>	ESP crash when flapping interface with l2tp tunnels that have qos applied to the tunnels.
<a href="#">CSCvh57242</a>	cpp-mcpl0-ucode crash when layer 2 switching packet
<a href="#">CSCvh58400</a>	Dialer status not showing success counter
<a href="#">CSCvh58702</a>	Router crashes after interface flap where sessions get moved from one interface to another
<a href="#">CSCvh60525</a>	CLI aaa common-criteria not available on IPBASEK9 license
<a href="#">CSCvh60871</a>	Unexpected Reboot following show platform software adjacency oce [ID]
<a href="#">CSCvh63693</a>	SR-TE tunnel flap after SSO
<a href="#">CSCvh64729</a>	FP crash @cpp_qm_create_queue while adding fair-queue
<a href="#">CSCvh69402</a>	Dot1x specific configuration applied but not working on the interface

Caveat ID Number	Description
<a href="#">CSCvh69518</a>	%SYS-3-TIMERNEG:Cannot start timer with negative offset Process= "ARP Background"
<a href="#">CSCvh70297</a>	Redundancy Mode None does not Sync
<a href="#">CSCvh70356</a>	ASR1K - ECMP load-balance w/ DPI L2TP Tunnel visibility and QoS may generate ucode crash
<a href="#">CSCvh70557</a>	CPP crash in MMA
<a href="#">CSCvh71539</a>	Command "show aaa servers" reloads the switch
<a href="#">CSCvh73134</a>	ISDN memory leak
<a href="#">CSCvh74076</a>	Performance monitor related field (like SSRC) is not collected.
<a href="#">CSCvh74863</a>	VTY ACL cannot be applied if ACL defined before
<a href="#">CSCvh75132</a>	CPP crash stuck thread detected multikey_hash_replace_int
<a href="#">CSCvh99576</a>	LACP Rate defaults to fast with no way to change it to normal
<a href="#">CSCvi10250</a>	nbar2: facebook misclassification for facebook-zero protocol (facebook mobile)
<a href="#">CSCvg05429</a>	ROMMON: RP2 BIOS - Adjust TOLM based on PCIE HT FPGA address space size

### Open Caveats—Cisco IOS XE Fuji 16.8.1

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

Caveat ID Number	Description
<a href="#">CSCuu39858</a>	Polaris_dev: VRF sub mode configurations under aaa group
<a href="#">CSCuv50102</a>	"%RF-3-MALLOC_FAILURE: Memory allocation failure" Message on boot
<a href="#">CSCvd81374</a>	Orthrus: FP 100 crashed when sending traffic around 55 MPPS with pkts size 64byte
<a href="#">CSCvf07576</a>	router reloaded when doing show BGP RT filter routes
<a href="#">CSCvf34608</a>	Excessive "Reflector" Tracelogs
<a href="#">CSCvf78430</a>	OSPF : error msg seen while performing no router ospf "no fibidb for backup interface - ifnum 29"
<a href="#">CSCvf82853</a>	RPID not updated in Transfer Scenario involving TDM trunk.
<a href="#">CSCvf98378</a>	IOSXE_INFRA-6-PROCPATH_CLIENT_HOG: IOS shim client 'fman stats bipc' has taken 278 msec
<a href="#">CSCvg06563</a>	BE4K Memory leak during bulk register request from portal
<a href="#">CSCvg30991</a>	IOS-XE routers: Memory leak observed on process ivr: peer_item_t in AFW_application_process

Caveat ID Number	Description
<a href="#">CSCvg40933</a>	MoH not heard when conf initiator drops from conference [specifically when Holdee xfers the call]
<a href="#">CSCvg42218</a>	BE4K VRF failed to associate if binding is used in tenant
<a href="#">CSCvg53159</a>	%SNMP-3-RESPONSE_DELAYED: processing GetNext of cafSessionEntry.2 seen on catalyst switch
<a href="#">CSCvg62161</a>	Prefix SID delete after SSO.
<a href="#">CSCvg94600</a>	crash with "debug platform condition ipv4 access-list "
<a href="#">CSCvg96330</a>	Headend should not allow traceroute non-FEC prefix when no fec-type specified
<a href="#">CSCvg97010</a>	load-balance advanced moving traffic to fallback path when primary path are not over utilized
<a href="#">CSCvh00630</a>	ISRV/QOS - service-policy defined in bootstrap config may not be applied
<a href="#">CSCvh02575</a>	PLATFORM_INFRA-5-IOS_INTR_OVER_LIMIT error with traceback
<a href="#">CSCvh03361</a>	1681: LB download error seen with scale BDI interfaces in core
<a href="#">CSCvh05656</a>	XDR disabled causing config-out-of-sync reload
<a href="#">CSCvh12589</a>	IPv4 DPI Hashing: default key-control not going to right bucket
<a href="#">CSCvh19173</a>	XE316: throughput is licensed throughput when idcert renew is failed and EVAL mode
<a href="#">CSCvh22278</a>	OSPF Hello timer 10sec is not applied in network type non-broadcast
<a href="#">CSCvh24986</a>	Failed to get LSC certificate from Microsoft CA
<a href="#">CSCvh30065</a>	Incorrect internal ordering for QoS Change via NETCONF/YANG change
<a href="#">CSCvh41761</a>	Media failure when RTP port 6784 is allocated by CUBE
<a href="#">CSCvh47124</a>	Nexthop is wrong in route-import table on branch when delete WAN interface and reconfigure it
<a href="#">CSCvh49609</a>	Both RP crash @hqf_cfg_cp_fo_shape_modify while removin lacp max-bundle 1 under port-channel intf
<a href="#">CSCvh54229</a>	TCAM critical limit shows incorrect value of 55 %.
<a href="#">CSCvh57108</a>	CPUHOG on QoS statistics collection for DMVPN. QoS crash with DMVPN/NHRP.
<a href="#">CSCvh59431</a>	Byte counters for physical port-channel interface and port-channel subinterface don't match
<a href="#">CSCvh61030</a>	Present Call Idle State does not work with Seq Vhg with Shared lines.
<a href="#">CSCvh62532</a>	System reload when clearing cts pac

Caveat ID Number	Description
<a href="#">CSCvh62615</a>	There is junk entry in route-import table on branch when shutdown/no shutdown WAN interface
<a href="#">CSCvh63857</a>	Memory leak in some SBC functions
<a href="#">CSCvh66033</a>	IKEv2 - Crash with segmentation fault when debugs crypto ikev2 are enabled
<a href="#">CSCvh66584</a>	ESP100: wrong show platform software ipsec fp active encryption-processor 1 registers result
<a href="#">CSCvh66642</a>	uIDB leaks at the DMVPN hub if the route to remote NBMA is not learned
<a href="#">CSCvh66676</a>	Difference in yang and cli output
<a href="#">CSCvh68109</a>	[UniScale]csr1k1vCPU failed to find NDR due to MplsNoRoute pkt drop in MPLS performance at scale
<a href="#">CSCvh70580</a>	Management interface Gi0/0 randomly unreachable
<a href="#">CSCvh71668</a>	ASR1002-HX/Polaris 16.5: Traceback seen for full VMI when lcp AVPs pushed by RADIUS
<a href="#">CSCvh72645</a>	Policy from Local_HR_SGT to SERVER1 failed to be downloaded from ISE
<a href="#">CSCvh75132</a>	CPP crash stuck thread detected multikey_hash_replace_int
<a href="#">CSCvh75923</a>	LISP Assert crash on 16.6.3 on enabling debug for LISP control plane on a cat 3650
<a href="#">CSCvh78116</a>	IOS-XE: HTTP WebUI works even when disabled
<a href="#">CSCvh82112</a>	Polaris Routers - Memory leak under process RECMSPAPP in IOSd
<a href="#">CSCvh87871</a>	BGP should NOT install a path via a gateway where the resolving route (0/0) is the route
<a href="#">CSCvh88975</a>	performance-monitor does not report classification after tunnel shutdown
<a href="#">CSCvh89773</a>	Bootloop due to file system errors
<a href="#">CSCvh89821</a>	Router crash @ oce_process_ipv4_adj_perf
<a href="#">CSCvh92130</a>	downloaded policies hit by traffics were all gone after the second SSO
<a href="#">CSCvh93071</a>	Redistributing connected route with AIGP attribute is being continuously readvertised
<a href="#">CSCvh95689</a>	CME SIP: MWI stops updating when using Solicited Notify option with CUE
<a href="#">CSCvh96821</a>	ASR1004 started relaying clients DHCP Discover messages to DHCP Server with the wrong IP address
<a href="#">CSCvh96950</a>	16.3: Ping failure and router crash while testing PFRv3 scenario
<a href="#">CSCvh97268</a>	Vcube doesn't stream audio from a .wav file on bootflash:

Caveat ID Number	Description
<a href="#">CSCvh97792</a>	Router: CCE crashed with EPC classify pkts
<a href="#">CSCvh97818</a>	"show voice call <x/y/z>" missing print out dsp statistics in ISR4k
<a href="#">CSCvi00751</a>	Network info title is not localized to Japanese in 78xx / 88xx
<a href="#">CSCvi00768</a>	Directory "records" string is displaying with junk characters
<a href="#">CSCvi01650</a>	SIP Out-of-Dialog OPTIONS Ping Group Shows Dial-Peers Marked as None
<a href="#">CSCvi01745</a>	epp_cp_svr crashes, causing reload
<a href="#">CSCvi02084</a>	%SNMP-3-INPUT_QFULL_ERR: on a ISR4000 when polling cnpdAllStatsEntry
<a href="#">CSCvi02816</a>	ZBF not able to identify the WAAS optimized flow and drops ACK
<a href="#">CSCvi02863</a>	port stop to forward traffic after removal service instance from tengig port
<a href="#">CSCvi03536</a>	Local Directory search returns "No Records Found" when a Day 2 entry is used in "Last Name" field
<a href="#">CSCvi04447</a>	Throughput defaults to 1000kbps after license expires
<a href="#">CSCvi05940</a>	show policy-map int cannot display complete
<a href="#">CSCvi06312</a>	Subsystem stopped: ios-emul-oper-db due to bgp table issue
<a href="#">CSCvi06417</a>	SIP stack matching the dial-peer when processing NOTIFY message causing call routing issues
<a href="#">CSCvi06897</a>	dialpeer matching for inbound SIP profile fails with VRFs
<a href="#">CSCvi07387</a>	ip dhcp excluded-address deletion issues via netconf
<a href="#">CSCvi08303</a>	Standby RP Reloads due to Config Sync Failure When Applied Service-insertion WAAS on Physical Int
<a href="#">CSCvi10089</a>	EXEC process stuck vty line where 'no exec' is set
<a href="#">CSCvi10597</a>	OSPF is not adding route
<a href="#">CSCvi10831</a>	CAT9k show cts role-based permissions/sgt-map <platform> keyword - PI part
<a href="#">CSCvi11123</a>	FMFP-3-OBJ_DWNLD_TO_DP_FAILED error after modifying QoS policy
<a href="#">CSCvi11665</a>	Virtual-service guest IP accepts broadcast address
<a href="#">CSCvi22603</a>	Flex-LSP tunnel flap on failing active protecting link without WRAP enabled
<a href="#">CSCvi26398</a>	"%LISP-4-LOCAL_EID_RLOC_INCONSISTENCY" should be suppressed in SDA context
<a href="#">CSCvi27433</a>	active RP crash @bfd_delete_adjacency_from_tree on port-channel shut

Caveat ID Number	Description
<a href="#">CSCvi29675</a>	Router crash after upgrading to NBAR 35
<a href="#">CSCvi29773</a>	ISDN MIB not accesible on ISR 4451
<a href="#">CSCvi31493</a>	Configuration of BGP auto-summary using NETCONF fails
<a href="#">CSCvi35143</a>	Repeatedly Tracebacks seen : %INFRA-3-INVALID_GPM_ACCESS: Invalid GPM Load
<a href="#">CSCvi36351</a>	standby rp crash on removing member link from port-channel
<a href="#">CSCvi36460</a>	Crash during aggregation of port to agport with LACP
<a href="#">CSCvi38244</a>	IPv6 VRRP Master is using using vlan BIA MAC while sending Neighbor advertisements (NA)
<a href="#">CSCvi38916</a>	Persistent Telnet and SSH crashes when configured in 16.6.2
<a href="#">CSCvi39785</a>	map-cache filtering on internal-border with co-located map-server

## 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

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