

Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Fuji 16.7.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 provide 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

The following table provides information about field-replaceable units (FRUs) of Cisco ASR 1000 Series Aggregation Services Routers supported in each ROMmon release.

Table 1: Supported ROMmon Releases for ASR 1000 Series Aggregation Services Routers FRUs

FRU	16.2 (1r)	16.2(2r)	16.3 (2r)	16.7 (1r)
ASR 1000 RP2	Yes	—	Yes	—
ASR 1000 RP3	—	—	Yes	—
ASR 1001-X	Yes	Yes	Yes	—

FRU	16.2 (1r)	16.2(2r)	16.3 (2r)	16.7 (1r)
ASR 1002-X	Yes	—	Yes	Yes
ASR 1001-HX	—	Yes	Yes	—
ASR 1002-HX	—	Yes	Yes	—
ASR 1000- ESP20	Yes	—	Yes	—
ASR 1000- ESP40	Yes	—	Yes	—
ASR 1000- ESP100	Yes	—	Yes	—
ASR 1000- ESP200	Yes	—	Yes	—
ASR 1000- SIP40	Yes	—	Yes	—
ASR 1000- 2T+ 20x 1GE	Yes	—	Yes	—
ASR 1000- 6TGE	Yes	—	Yes	—
ASR 1000- MIP100	Yes	—	Yes	—

The following table lists the minimum ROMmon release supported for RP and ESP FRUs in Cisco IOS XE 16.x.x releases.

Table 2: Minimum ROMmon Release Supported for RP and ESP FRUs

Cisco IOS XE Release	ASR 1000 RP	ASR 1000 RP3	ASR 1000-ESP20	ASR 1000-ESP40	ASR 1000-ESP100	ASR 1000-ESP200
16.2.x	16.2(1r)	—	16.2(1r)	16.2(1r)	16.2(1r)	16.2(1r)
16.3.x	15.2(1r)S	16.3(2r)	XNC	15.0(1r)S	15.3(1r)S	15.3(1r)S
16.4.x	15.2(1r)S	16.3(2r)	XNC	15.0(1r)S	15.3(1r)S	15.3(1r)S
16.5.x	15.2(1r)S	16.3(2r)	XNC	15.0(1r)S	15.3(1r)S	15.3(1r)S
16.6.x	15.2(1r)S	16.3(2r)	XNC	15.0(1r)S	15.3(1r)S	15.3(1r)S
16.7.x	15.2(1r)S	16.3(2r)	XNC	15.0(1r)S	15.3(1r)S	15.3(1r)S

The following table lists the minimum ROMmon release supported for other FRUs in each Cisco IOS XE 16.x.x release.

Table 3: Minimum ROMmon Release Supported for Other FRUs

Cisco IOS XE Release	ASR 1001-X	ASR 1002-X	ASR 1001-HX	ASR 1002-HX	ASR 1000-2T+20x1GE	ASR 1000-6TGE	ASR 1000-MIP100	ASR 1000-SIP40
16.2.x	16.2(1r)	16.2(1r)	—	16.2(2r)	16.2(1r)	16.2(1r)	16.2(1r)	16.2(1r)
16.3.x	15.4(2r)S	15.5(3r)S1	16.2(2r)	16.2(2r)	15.5(3r)S1	15.4(2r)S	15.5(3r)S1	15.0(1r)S
16.4.x	15.4(2r)S	15.5(3r)S1	16.2(2r)	16.2(2r)	15.5(3r)S1	15.4(2r)S	15.5(3r)S1	15.0(1r)S
16.5.x	15.4(2r)S	15.5(3r)S1	16.2(2r)	16.2(2r)	15.5(3r)S1	15.4(2r)S	15.5(3r)S1	15.0(1r)S
16.6.x	15.4(2r)S	15.5(3r)S1	16.2(2r)	16.2(2r)	15.5(3r)S1	15.4(2r)S	15.5(3r)S1	15.0(1r)S
16.7.x	15.4(2r)S	15.5(3r)S1	16.2(2r)	16.2(2r)	16.3(2r)	16.3(2r)	15.5(3r)S1	15.0(1r)S



Note Due to the effect of CSCve29180 on Cisco ASR 1002-X Router, it is recommended that the ROMMON release on Cisco ASR 1002-X Router be upgraded to 16.7(1r).

The following table lists the recommended ROMmon release for RP and ESP FRUs in each Cisco IOS XE 16.x.x release.

Table 4: Recommended ROMmon Release for RP and ESP FRUs

Cisco IOS XE Release	ASR 1000 RP2	ASR 1000 RP3	ASR 1000-ESP20	ASR 1000-ESP40	ASR 1000-ESP100	ASR 1000-ESP200
16.2.x	16.3(2r)	—	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.3.x	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.4.x	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.5.x	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.6.x	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.7.x	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.8.x	16.9(1r)	16.9(1r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)

The following table lists the recommended ROMmon release for other FRUs in each Cisco IOS XE 16.x.x release.

Table 5: Recommended ROMmon Release for Other FRUs

Cisco IOS XE Release	ASR 1001-X	ASR 1002-X	ASR 1001-HX	ASR 1002-HX	ASR 1000-2T+20x1GE	ASR 1000-6TGE	ASR 1000-MIP100	ASR 1000-SIP40
16.2.x	16.3(2r)	16.7(1r)	—	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)

Cisco IOS XE Release	ASR 1001-X	ASR 1002-X	ASR 1001-HX	ASR 1002-HX	ASR 1000-2T+20x 1GE	ASR 1000-6TGE	ASR 1000-MIP100	ASR 1000-SIP40
16.3.x	16.3(2r)	16.7(1r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.4.x	16.3(2r)	16.7(1r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.5.x	16.3(2r)	16.7(1r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.6.x	16.3(2r)	16.7(1r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.7.x	16.3(2r)	16.7(1r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)	16.3(2r)
16.8.x	16.9(1r)	16.7(1r)	16.9(1r)	16.9(1r)	16.3(2r)	16.3(2r)	16.3(2r)	

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 16.7.1

No new hardware features were introduced for Cisco ASR 1000 Series in Cisco IOS XE Fuji 16.7.1.

New Software Features in Cisco IOS XE Fuji 16.7.1

The following are the new software features introduced in Cisco ASR 1000 Series Aggregation Services Routers for Cisco IOS XE Fuji 16.7.1.

Ability to Program Core for Control Plane on ESP Interfaces

The **platform ipsec control-plane** command enables allocation of additional cores on the control plane of a router. For more details on the **platform ipsec control-plane** command, see <https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/security/m1/sec-m1-cr-book/sec-cr-p1.html>

ASR1K Factory Reset feature

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/routers/asr1000/operations/guide/asr1000ops/performing_factory_reset.html

BGP persistence (VPNv4, v6, flow-spec)

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/xe-16-7/irg-xe-16-7-book/bgp-persistence.html

Crypto license on ASR1002HX to replace the IPsec License

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/b_ASR1001HX-1002HX_HIG_chapter_0110.html

Enable Whitelist support for Encrypted traffic Analytics (ETA)

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/netflow/configuration/xs-16-7/nf-xe-16-7-book/encrypted-traffic-analytics.html>

Encrypted Traffic Analytics

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/netflow/configuration/xs-16-7/nf-xe-16-7-book/encrypted-traffic-analytics.html>

<https://www.cisco.com/c/dam/en/us/td/docs/solutions/CVD/Campus/CVD-Encrypted-Traffic-Analytics-Deployment-Guide-2017DEC.pdf>

ETA Whitelist Support

For detailed information, see the following Cisco documents:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/netflow/configuration/xs-16-7/nf-xe-16-7-book/encrypted-traffic-analytics.html>

In-Service Model Update Package

Updates YANG data models on a device. For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/167/b_167_programmability_cg.html

IOx Tracing and Logging

Allows a guest application to run separately on the host device that helps with reporting the logging and tracing of the data to the host.

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/167/b_167_programmability_cg.html

IP-Delivery Delay Detection Protection (IP-D3P) Protocol Support

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_getvpn/configuration/xs-16-7/sec-get-vpn-xe-16-7-book/sec-get-vpn-interop.html

IPv6 NAT DNS ALG Support

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/xs-16-7/nat-xe-16-7-book/iadnat-applvlgw.html

ISIS - Advertise Max SID Depth in LSPs and to LSLIB

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-7/segrrt-xe-16-7-book/sr-ad-max-SID-depth-is-is-ospf-bgp-ls.html

ISSU Using install Commands for ASR1000

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/routers/asr1000/configuration/guide/chassis/xe-16-7/asr1000-software-config-guide-16-7/install-issu-asr.html>

L2VPN NSR - VPLS with BGP signaling + LDP transport

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bgp/configuration/xe-16-7/irg-xe-16-7-book/bgp-support-for-nsr-sso-with-l2vpn-vpls.html

MC-LAG for L3VPN

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l3_vpns/configuration/xe-16-7/mp-l3-vpns-xe-16-7-book/mc-lag-for-l3vpn.html

Microsoft - VxLAN GPE Tunnel IPv6 Support

For detailed information, see the following Cisco document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/xe-16-7/ce-xe-16-7-book.html>

Model-Driven Telemetry

Provides a mechanism to stream data from a Model-Driven Telemetry-capable device, to a destination. The data to be streamed is driven through subscription. The feature is enabled automatically, when NETCONF-YANG is started on a device.

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/167/b_167_programmability_cg.html

Multiple N64 HSL destinations over IPv6

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_nat/configuration/xe-16-7/nat-xe-16-7-book/iadnat-stateful-nat64.html

NaaS 2.0/ETA - Enable TLS Labels, App ID, and Multi Destination Support

For detailed information, see the following Cisco document:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/netflow/configuration/xe-16-7/nf-xe-16-7-book/encrypted-traffic-analytics.html>

NIM-SSD on ASR1002-HX

For detailed information, see the following Cisco documents:

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

OSPF - Advertise Max SID Depth in LSAs and to LSLIB

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-7/segrt-xe-16-7-book/sr-ad-max-SID-depth-is-is-ospf-bgp-ls.html

OSPF - Redistribution to and from RIB

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-7/segrt-xe-16-6-book/sr-routing-info-base-support.html

Python Scripting

Supports Python v2.7 in both interactive and non-interactive (script) modes and is available in the Guest Shell. The Python scripting capability gives programmatic access to YANG data models and the device's command-line interface (CLI) to perform various tasks such as Zero Touch Provisioning (ZTP) and Embedded Event Manager (EEM) actions.

SPA OC3/OC12 Smart Licensing

For detailed information, see the following Cisco document:

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

SR:ODNNH for LDPPW

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-6/segrt-xe-16-7-book/sr-ondemand-vpws-l2vpn.html

SR:PCE Initiated LSPs

For detailed information, see the following Cisco document:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/seg_routing/configuration/xe-16-6/segrt-xe-16-7-book/sr-pcep-lsp.html

Tuneable DWDM-C SFP+ on ASR1k

Effective Cisco IOS XE Fuji 16.7.1, DWDM-SFP10G-C Modular Optics is supported on Cisco ASR 1000 Series Aggregation Services Routers. For detailed information, see the following Cisco documents:

https://www.cisco.com/c/en/us/td/docs/interfaces_modules/transceiver_modules/compatibility/matrix/GE_Tx_Matrix.html

https://www.cisco.com/c/en/us/td/docs/routers/asr1000/install/guide/1001HX_1002HX/b_ASR1001HX-1002HX_HIG/b_ASR1001HX-1002HX_HIG_chapter_010.html

VxLAN 8K GPE Tunnel Support

For detailed information, see the following Cisco document:

<http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/xe-16-7/ce-xe-16-7-book.html>

WEB User Interface

Supports an embedded GUI-based device-management tool that provides the ability to provision the router, simplifies device deployment and manageability, and enhances user experience. The following features are supported on Web User Interface from Cisco IOS XE Fuji 16.7.1:

- Authentication, authorization, and accounting (AAA) configuration
- DHCP Enhancements
- NetFlow Configuration
- Point-to-Point Protocol Over Ethernet
- Software Upgrade Enhancements

YANG Data Models

For the list of Cisco IOS XE YANG models available with this release, navigate to <https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/1671>.

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 and Embedded Services Processors

Because of [CSCvg38872](#) Cisco ASR 1000 Series Aggregation Services Routers with ESP100 or ESP200 is not supported in Cisco IOS XE Fuji 16.7.1.

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 & 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:
 - 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 Bug Search Tool Help & 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 16.7.1

Open Caveats—Cisco IOS XE Fuji 16.7.1

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

Caveat ID Number	Description
CSCva93135	LISP: tracebacks on cleanup on ASR1k
CSCvg38872	Crash observed while sending 40K 4Kb packet size html session with ETA configured on ESP 100
CSCvb44664	LISP LIG: lig should display when it has rejected a map-reply
CSCvb88867	Excess BGP Traps Generated just after upgrade
CSCvb94470	AR: disabling eth map-server should clear all AR entries
CSCvb95909	16.3.2: smd crash
CSCvd58679	Inbuilt wireshark is not working: Start capture invoked while capture is being exported
CSCvf07576	RRouter crashed when doing show BGP RT filter routes
CSCvf16338	voiprtp_register_transport_port_manager_and_reserve: Alloc ports failed, min: 8000, max: 48199 248

Caveat ID Number	Description
CSCvf52766	Dual Ringback in Semi-consult transfer on CME
CSCvf57155	ISIS BGP LS: When isis net value is un-configured, ISIS does not withdraw BGP LS info from LSLIB.
CSCvf58293	ISIS SR TE: When SRGB range is changed, the SRTE tunnel does not come up in certain scenerios.
CSCvf60294	OSPF SID Redist: When same prefix is rxed as inter and redistribute connect, handling sid incorrect.
CSCvf63541	BGP w/global import/export crashes when several nbrs deleted simultaneously
CSCvf64548	OSPF SID redistrib: After system switch over, connected routes do not get re-distributed/installed.
CSCvf66030	OSPF SR: When SRGB range is changed, mapping server entries do not get re-installed.
CSCvf68531	802.1x authentication fails between cos Access Points and NGWC 16.3.x
CSCvf71850	prefix missed in map-cache output
CSCvf72576	IP SLA Path Jitter Operation packet loss
CSCvf73689	"delay-start" command ignore after "delay-start vrf" command
CSCvf76436	Combination of add-path, backup path and advertised-to leaves is not giving expected netconf values
CSCvf78430	OSPF: error msg seen while performing no router ospf command
CSCvf78602	IPv6 summary-prefix stuck in LSP after reconfiguring from level-2 to level-1
CSCvf79950	ISIS TE: while issuing "no mpls traffic-eng" active RP hangs and stand by RP reloads.
CSCvf82853	RPID not updated in Transfer Scenario involving TDM trunk.
CSCvf84349	Router crash on polling cEigrpPeerEntry
CSCvf84638	[UniScale]time to install prefixes post event increments 2.5 times in 16.7 compared to 16.6 at mpls scale
CSCvf88510	BGP second route not installed due to rib failure after bgp flap in dual DMVPN hub setup
CSCvf89894	GETVPN Primary KS sending rekey first to group managers and then to Secondary KS via scheduled rekey.
CSCvf90066	ASR1K RP2 crash due to CPUHOG occurred by arp input process infinite loop
CSCvf92239	Failing to collect router info via netconf
CSCvf93057	OSPF SR TE: Dynamic SRTE tunnel with autoroute keeps flapping in some scenarios

Caveat ID Number	Description
CSCvf93129	Mid-call failure because all available Crypto is not Offered in SDP
CSCvf93892	If Pcm-dump caplog FFF is assigned to a h323 Dial-peer, hold/resume result in one way audio
CSCvf95739	Remove "dns-vrf-aware" CLI and make DNS vrf aware by default.
CSCvf96009	OSPF SR: When loopback is configured with prefix suppression, EPL should be withdrawn
CSCvf96294	MIB counter for IPSec tunnels does not decrement under high tunnel scale and churn
CSCvf97230	RE-INVITE and OPTIONS Glare not handled by CUBE
CSCvf97647	ISIS SR: traceback seen when SRGB range is re-configured to a newer value.
CSCvf97924	datac connect configuration stuck while script configure / unconfigure/ reconfigure the data connect
CSCvg03683	ASR1K CGN NAT ASR1K ESP100 crashed with clear ip nat translation *
CSCvg03981	IOS-XE NAT: IP header of tunneled traffic is translated twice (in inner and outer header)
CSCvg04055	Re-calculate PKI SHADOW timer after NTP synchronization
CSCvg04115	Command Authorization with no shared secret key fails.
CSCvg04391	ISIS SID Conflict:when diff prefixes by OSPF& ISIS have same sid, both installed in RIB wit same sid
CSCvg05896	IWAN EIGRP SAF - seq number mismatch after branch reload
CSCvg08471	OSPF; process ospf segmentation fault when shut and no shut is performed in active RP.
CSCvg08768	OSPF BGP LS: After fail over, error msg seen: %LSLIB-4-EOD: Producer OSPF-0x0 did not send EOD
CSCvg09010	KS merge fails for groups with TBAR due to PST update failure on primary KS
CSCvg15158	DMVPN session get stuck in NHRP and UP-NO-IKE state without active IKEv2 session until rekey
CSCvg16357	Copying file larger than 2GB to FTP destination fails with "Invalid argument"
CSCvg18094	GETVPN: show crypto gdoi ks member summary missing last octet in IP address
CSCvg19259	MPLSoFlexVPN: Hub does not forward resolution request when default route is advertised to spokes
CSCvg19281	Multiple GETVPN GM crashes after migration to new KS pair

Caveat ID Number	Description
CSCvg21867	OSPF SSPF: With ECMP combination of MPLS TE and SRTE tunnels, all RTP tunnel paths marked as SRTE
CSCvg22308	ISIS SRTE: verbatim tunnel not coming up when the path option started with first hop prefix address.
CSCvg22515	After upgrade of IOS, SSH passwords longer than 25 characters do not work
CSCvg22693	route-map match with exact-match does not work for numbered community-lists
CSCvg22970	SNMP Status on E1 Serial interfaces not correct
CSCvg23452	OSPFv3 maximum-paths does not apply to output of show ipv6 cef CLI
CSCvg23820	CTS PAC download fails with VRF config on non-management interface
CSCvg23838	C1111-4PWQ : 16.06.01a.prd3 : RP memory doesnt come down after BGP scaling test.
CSCvg26721	OSPF SSPF: Too many intra-area SPFs for every SID change when remote-lfa is configured
CSCvg27234	"pass-thru content sdp mode non-rtp" leading to FPI leaks.
CSCvg28013	OSPF SSPF: CstrPath flag not removed when RSVP TE tunnel config changed to SRTE
CSCvg28532	OSPF SR: segment-routing oam ping/traceroute failure via node/prefix sid label unable to troubleshoot
CSCvg31708	OSPF SSPF: With ECMP of SRTE and RSVP-TE auto-announce tunnels, RSVP-TE is not installed as MFI path
CSCvg32153	Poch interface is reporting weird drops even though there is no actual drop
CSCvg32701	Night-Service code fails if it overlaps with FAC codes
CSCvg33403	Incoming call fails with Lower layer disconnected call cause=47 error
CSCvg33611	Multicast packets does not counted as multicast on subinterfaces interface MIB
CSCvg33631	Unknown Protocol packets count mismatch between subinterface and physical interfaces sh int cli and IF MIB counters
CSCvg34731	IOS-XE MOS scores always show 4.x even with massive packet loss.
CSCvg34790	Device crashes due to crypto pki functions
CSCvg34986	Media recording on IOS-XE does not work if a refer is received immediately after the call is answered
CSCvg35528	enterprises.9.9.166.1.12.1.1.1 = No Such Instance currently exists at this OID on ASR1002

Caveat ID Number	Description
CSCvg35532	OSPF SSPF: with Non-ECMP SRTE+RSVPTE, Native paths installed for RSVP TE tunnel with metric option
CSCvg36155	Intermittent crash in CCSIP-REGISTER with "no voice register global"
CSCvg36598	ISAKMP Fails When Multiple HSRP tunnel/SVTI Interfaces Configured
CSCvg39082	Crash after TCP session timeout
CSCvg39934	SL mode, unthrottled configuration and reload without saving puts the system in inconsistent state.
CSCvg40006	OSPF SSPF: both RSVP TE tunnel paths and its native IGP paths are installed in GRIB
CSCvg40933	MoH not heard when conference initiator drops from conference
CSCvg42410	A router may lose its IP address configuration after an interface shutdown
CSCvg43199	OSPF SSPF: Not all igp paths are installed as SID0 MPLS2MPLS constrained path, since not in GRIB
CSCvg43263	when shutting interface with no isis adjacency, local micro-loop avoidance blocks FRR recalculation
CSCvg43685	OSPF SSPF: ECMP of RSVPTE+SRTE incorrect SID0 MPLS2MPLS estr path with multicast-intact option
CSCvg44135	OSPF SRTE: prefix information is not provided to SRTE when it is learnt via mapping server.
CSCvg44838	Crash on router due to authentication
CSCvg47453	Default route redistributed into RIP from EIGRP is not removed from RIP database
CSCvg48470	ISIS 11-12 redistribution prefix doesnt get redistributed till clear isis rib redistribution is done
CSCvg49458	ASR1k EIGRP SIA cause MALLOCFAIL and Traceback by interface down
CSCvg50595	IPV6 needs to be enabled under interface in order to configure ipv6 dhcp relay Polaris releases.
CSCvg52687	Quiet mode exit does not re-apply "vrf-also" to config.
CSCvg53898	OSPF SSPF: IP bind of SID0 label to MPLS2MPLS forwarding path may not happen in certain scenarios.
CSCvg54074	3rd Party SIP Phones not registering from CME 11.6
CSCvg55316	Multiple crashes on ASR1k at iWAG GTP PDP director event dispatcher
CSCvg57735	DMVPN - Per tunnel Qos policy-map not getting applied on the interface
CSCvg58096	Increase of dampening penalty on route refresh

Caveat ID Number	Description
CSCvg59604	Cube crashes intermittently multiple times within every two days.
CSCvg60288	Device IP address AV pair replaced with 192.168.1.5
CSCvg62619	MPLSOAM IGP Interaction - Return values/params to be modified for Label mismatch scenario.
CSCvg65587	EVPN mgr crash @ bgp_invalidate_aggregateQ when unconfig l2evpn configuration
CSCvg67028	VRF deletion status <being-deleted> after removing the RD
CSCvg68425	16.7: ASR1K: fman_fp and ucode core files seen with b2b_internet_edge profile
CSCvg68773	Global bind disappears when bind interface flaps during an active call
CSCvg69090	Invalid MTU specified message is seen while trying to change MTU
CSCvg69975	Incorrect RESTCONF JSON Numeric Types for IOS-XE
CSCvg71212	Cannot add show flow monitor cache sort commands under privilege exec level config
CSCvg74048	PKI: All SCEP requests fail with "Failed to send the request. There is another request in progress"
CSCvg75321	snmpwalk lldpmib on cBR8 could cause OID loop when lldp enabled
CSCvg77535	GM box crashes when number of gm's per box is more than 1000 on ASR 1001-X

Resolved Caveats—Cisco IOS XE Fuji 16.7.1

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

Caveat ID Number	Description
CSCve29180	ASR1002-X - Fail to 16.x IOS image from bootflash, no issue from tftp:
CSCvb29204	BenignCertain on IOS and IOS-XE
CSCve35209	16.6:Kignpin @ Kernal errors kernel-source/kernel/softirq.c:150 __local_bh_enable_ip+0x3b/0x9c()
CSCve64341	920 : Mid Point LSP creation failure after reload with latest polaris Image
CSCve76947	Eigrp hmac-sha-256 secret string changes when show running-config is executed
CSCvf24607	Ipssec Session Fail After Up/down Link Between Dmvpn Tunnel
CSCvf26916	RTCP/RTP based Media Inactivity timers for MGCP GW do not work in newer releases
CSCvf33166	SD-AVC: %% NBAR Error: Cache synchronization import
CSCvf33443	FEW Inter xTR roam scale 400/sec hit on CSR1KV-Map server causes delay in L2&L3 lisp updates to xTR

Caveat ID Number	Description
CSCvf48159	Router crash during T38 fax bitrate negotiation
CSCvf60179	OSPF SID Redist: When same prefix advertised by OSPF and ISIS, handling of labels in-correct.
CSCvf62777	CSR router restarts whenever no pass-through config is passed
CSCvf67269	IS-IS support for multi-instance redistribution for IPv6.
CSCvf68261	Crash when printing IPSEC anti-replay error
CSCvf69191	UTD: iosd crash Process = Connected Apps CLI Print Server
CSCvf73320	[UniScale]isr4431 crashes while finding NDR with max oif number per multicast grp at scale
CSCvf73552	VRRP non-zero authentication data on 16.3.3
CSCvf74829	CRL download fails due to "failed to create getcacert message"
CSCvf76535	B2B NAT HA: Stale NAT translations stuck on primary router after communication loss with standby
CSCvf77044	BGP Crimson: RIB query stuck in loop for VPN AF with imported nets
CSCvf77213	3850 CTS manual encrypted sap pmk causes stack to reload due to config parsing error
CSCvf78767	add-route not working for dynamic outside NAT pool
CSCvf80163	ASR1K crashes due to crypto microcode with no corefile/crashinfo
CSCvf80268	ikev2 ipsec proposal response/accept can fail validation
CSCvf80807	query for NS record does not return A record in additional section
CSCvf81579	ASR1K: IOSd crash in kmi_initial_check on null map dereference
CSCvf81650	ASR1K encryption processor cores written to tracelogs
CSCvf81695	ASR1K encryption processor trace file is not valid
CSCvf82376	Crash when removing "crypto map ipv6" and then related IPv6 ACL
CSCvf82436	AVC-EZPM: Cannot get netflow records for media traffic using application-performance ezPM profile
CSCvf87059	Setting snmp-server via netconf takes more than 30 seconds
CSCvf88590	After disabling http server/https server on netconf, IP-Adm-V4-Int-ACL-global delete
CSCvf90225	FlexVPN over MPLS with direct iBGP spoke-spoke peering does not add label in CEF
CSCvf92057	CUBE is unable to send PRACK to Skype server for inbound calls

Caveat ID Number	Description
CSCvf92460	show gtp parameters causes RP to crash
CSCvf94558	SNMPv3 authPriv option is missing for CLI.
CSCvf94948	Input policy-map classify traffic incorrectly - ISR4331
CSCvf95141	ZBF crashes on standby
CSCvf98838	CME SIP Segmentation Fault crash occurs on calls to VHG with Shared Lines
CSCvg01599	ASR1K display configuration when bootup with huge config and netconf-yang cli
CSCvg02533	router crashed after triggers with debug
CSCvg06722	CRETE/RSP3: IPsec tunnels goes down after lifetime expiry even with ReKey enabled
CSCvg07896	[Secure SRST] One way audio. Secure Line Side call to Non Secure SIP trunk
CSCvg13049	ISRG2: dot1p marking fails if service-policy applied on the Dialer
CSCvg17971	ASR1k ESP may crash after a switchover if IPsec configured
CSCvg20200	Polaris: Crash observed while client association with key-wrap enabled in controller.
CSCvg21196	ISR4K SW MTP configured as TRP does not relay PLI/RTCP messages.
CSCvg28350	Upon successful login, the network device must notify the administrator.
CSCvg28395	Crash when doing snmp walk for ipAddressEntry
CSCvg29183	ISR4K - XE 16.3.4 - SIP-TDM GW - FLEXDSPRM-3-TDM_CONNECT errors and crash
CSCvg29349	16.7:ASR1K: With Nat CGN mode, ALG, ZBFW and NBAR verifications failing in B2B internet edge profile
CSCvg29609	Crash when crypto map applied to several tunnel interfaces
CSCvg31380	smd crash when executing "show aaa clients"
CSCvg31495	NMR calculation is wrongly considering eid-record of 0.0.0.0/0 in SDA
CSCvg36598	ISAKMP Fails When Multiple HSRP tunnel/SVTI Interfaces Configured
CSCvg49155	Memory buildup with ip sla enable reaction-alert command
CSCvg56727	3850/3650 with 16.3.5/16.6.1 crashes with server-keycommand using key of 128 characters or more
CSCvg60135	Yoda based platform : Crash on cpp_qm_obj_destroy with reason as LocalSoft on Polaris Release
CSCvg68425	16.7: ASR1K: fman_fp and ucode core files seen with b2b_internet_edge profile

Caveats in Cisco IOS XE Fuji Release 16.7.2

Open Caveats—Cisco IOS XE Fuji 16.7.2

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

Caveat ID Number	Description
CSCve08418	IPsec/IKEv2 Installation Sometimes Fails With Simultaneous Negotiations
CSCve94399	router crash when importing BGP routes - EVPN
CSCvf65522	ESP crashed - double_exception_has_occured - malformed PIM packet over GRE tunnel & ERR_DTL_INV_ADDR
CSCvf89894	GETVPN // Primary KS sending rekey first to GM's and then to Secondary KS via scheduled rekey.
CSCvg09010	KS merge fails for groups with TBAR due to PST update failure on primary KS
CSCvg90226	Crypto Traceback: Router crash at 'Crypto Support' segmentation fault
CSCvg98890	IOS-XE GM router might crash after the rekey method is changed from unicast to multicast
CSCvh22775	SIP40 in slot 5 of ASR1013 when inserted ESP-200 in F1 by replacing ESP-40, showed ESI lock failure
CSCvh29771	Kernel crash in ASR1002-HX during LNS path switchover
CSCvh32216	Sporadic Crashes Due to IPsec (during ISAKMP AAA interaction)
CSCvh71856	IOSd crash when enabling dot1q in a port-channel sub-interface
CSCvi24515	IOS-XE - FTP closing connection as NAT device does not process the 230 reply message
CSCvi28746	ASR1k @ "add-route" does not work with "ip nat outside static" statement under VRF
CSCvi38391	H.245 messages are not translated by NAT outside when H.323 video call is initiated from Out-2-In
CSCvi51398	ASR 1001-X Te0/0/1 link fails when AOC transceivers are used
CSCvi70934	SYS-3-INVMEMINT: Invalid memory action prior crash with MoH + route list
CSCvi94425	TBAR issues on KS after running "clear crypto gdoi ks coop role"
CSCvi97572	ASR 1K Running 16.6.x Code Experiences CPP Crash When Processing Packet Through NBAR / MTP
CSCvj13382	ASR1K crash with Last reload reason: Critical process fman_fp_image fault on fp_0_0 (rc=134)
CSCvj27172	Crash during Generic Call Filter Module cleanup

Caveat ID Number	Description
CSCvj37428	LPCOR FAC on ISR 4K throws Traceback for call
CSCvj46153	Memory corruption after non zero REFCOUNT during IPSEC sibling allocation
CSCvj48560	Standby RSP keep crashing with error message ISSU-0-BOOT_SYNC_FAIL and BOOT-3-EXT_ISSU_CHK_FAILED
CSCvj56471	Memory leak under CCSIP_UDP_SOCKET / MallocLite

Resolved Caveats—Cisco IOS XE Fuji 16.7.2

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

Caveat ID Number	Description
CSCuv90519	Map doesn't get updated with socket change on local address change
CSCux20847	R0/0: ASR1002-X kernel: bullseye_i2c_master_xfer Error Repeats Every Hour
CSCvb34443	ikev2 fragmentation not working with aes-gcm encryption - hmac failure
CSCvd04871	Crash after IWAN does a recalculation in the RIB
CSCvd63393	Policy-map name 'policy-map PIN-G3/1/3.8' causes TB and subsequent RP Crash on Policy deletion/add.
CSCvd81374	Orthrus: FP 100 crashed when sending traffic around 55 MPPS with pkts size 64byte
CSCvd82858	Standby RP3 fails to boot on soft start
CSCvd90560	Incorrect channel next-hop for branch to branch traffic
CSCvd96815	Enhancement: Un-controlled TC in DISCARDED state is dropped instead of RIB-routed
CSCve15722	The second and later Pfrv3 VRF configs are missing after reload
CSCve53263	Configured Speed/Duplex are not supported on Mgmt Eth port
CSCve55089	BGP crashes at bgp_ha_sso_enable_ssmode
CSCvf07576	router reloaded when doing show BGP RT filter routes
CSCvf15348	ASR1001-X crashed at wsma_api_process_dhcp_op43()
CSCvf16626	iwan router unexpectedly reboot while updating pmi policy
CSCvf51773	NHRP redirect overriding routing table
CSCvf59201	IP SLA tracks are down, but IP reachability is up
CSCvf63541	BGP w/global import/export crashes when several nbrs deleted simultaneously
CSCvf70383	Crash in SDP Passthru when T.38 as 1st mline in mid-call SDP

Caveat ID Number	Description
CSCvf71358	NBAR First Packet Classification fails with AppNav enabled
CSCvf73693	isr4321 crash @ BGP Router for bfd bgp when sending traffic
CSCvf84349	Router crash on polling cEigrpPeerEntry
CSCvf84892	ASR is crashing in CENT code on memset.
CSCvf93129	Mid-call failure because all available Crypto is not Offered in SDP
CSCvf98378	IOSXE_INFRA-6-PROCPATH_CLIENT_HOG: IOS shim client 'fman stats bipc' has taken 278 msec
CSCvg01599	ASR1K display configuration when bootup with huge config and netconf-yang cli
CSCvg02533	router crashed after triggers with debug
CSCvg05172	Crash in VOIP media loop detection
CSCvg05452	IOS-XE router crash from memory corruption during CCB cleanup
CSCvg05896	IWAN EIGRP SAF - seq number mismatch after branch reload
CSCvg06428	After reloading the ELC40 linecards are not coming up online
CSCvg08471	OSPF; process ospf segmentation fault when shut and no shut is performed in active RP.
CSCvg14256	Crash at cc_detect_mute_call
CSCvg19259	MPLSoFlexVPN: Hub doesn't forward resolution req when default route is advertised to spokes
CSCvg26073	QFP Memory leak in 'cpp_cp_svr' with 'CPP List Hdr Chunk'
CSCvg29349	16.7:ASR1K: With Nat CGN mode, ALG, ZBFW and NBAR verifications failing in B2B internet edge profile
CSCvg30133	EPAs failed to boot in IOS, with multiple ASR1000-MIP100 installed.
CSCvg30991	IOS-XE routers: Memory leak observed on process ivr: peer_item_t in AFW_application_process
CSCvg32099	Active call status is displaying as 0 when resume in remote for the first time
CSCvg33941	Netflow does not count the amount of traffic correctly
CSCvg34731	IOS-XE MOS scores always show 4.x even with massive packet loss.
CSCvg35550	Netflow cannot add anymore cache entries after some events
CSCvg36853	16.7: ASR1K: Traffic flow failing with overlay multicast configs
CSCvg38307	CME/BE4000 crash occurs when call is made to invalid SNR destination

Caveat ID Number	Description
CSCvg38313	both ESP100 crashed when the ATM interface input QOS configure is applied
CSCvg40559	User defined application cannot be deleted in application-table
CSCvg45247	Site-prefix learning: Unexpected Reboot in 'IP RIB Update' Process after 'no domain default'
CSCvg46973	ASR1K -LNS ESP crash after failing/flapping TeGig interfaces
CSCvg48492	BE4000 one way audio seen line to trunk side call with VRF enabled
CSCvg52560	Traceback: OCSP creates a large number of lists and triggers a memory problem
CSCvg54149	TCP socket flap due to keepalive timeout with message stuck in queue for Multi-VRF dual BR setup
CSCvg55316	Multiple crashes on ASR1k at iWAG GTP PDP director event dispatcher
CSCvg60135	ASR1000 resets unexpectedly with reason as LocalSoft on Polaris Release
CSCvg61219	Crash seen during Blind Transfer in CME video call
CSCvg62161	Prefix SID delete after SSO.
CSCvg68425	16.7: ASR1K: fman_fp and ucode core files seen with b2b_internet_edge profile
CSCvg72960	ASR1K - LNS node de-aggregation w/ POLARIS image
CSCvg74048	PKI: All SCEP requests fail with "Failed to send the request. There is another request in progress"
CSCvg75315	ASR1K BGP scanner crash when change VRF and BGP configuration
CSCvg76706	BGP does not take into account the lowest IP NH for duplicate MAC RT 2 with same seq # for BP calc
CSCvg77128	ASR1009-X FAN SN in show inventory display incorrectly after replace the FAN and do RP switchover
CSCvg77410	qos/cce AOM pending batch ack due to BQS pending config
CSCvg77859	ASR1k: 16.5 and later: tracelogs/punt_debug.log* missing when punt keepalive timeout / crash occurs
CSCvg85879	BGP sets the wrong Local Preference for routes validated by RPKI server
CSCvg89855	ESP crashed - cpp_cp failed in cpp_qm_event_proc_defer_parent_event
CSCvg92393	IOMD log file filled with info message "(note): sendmsg retval "
CSCvg94908	Mgig stack keeps crashing while configuring with Radius commands
CSCvg94978	CUBE Router crashed - Critical software exception, Process = CCH323_CT

Caveat ID Number	Description
CSCvg97010	load-balance advanced moving traffic to fallback path when primary path are not over utilized
CSCvh00742	QoS queuing update not applied to queue
CSCvh02109	WSMA: Server responds with HTTP 404 on wsma-exec with http transport profile
CSCvh05611	IOSd crash while applying dial peer configuration
CSCvh06249	Crash when receiving EVPN NLRI with incorrect NLRI length field value
CSCvh17481	PKI: Device crash during srl download with multiple CDP URI
CSCvh24315	Memory leak for CCSIP_TCP_SOCKET and CCSIP_UDP_SOCKET on CUBE
CSCvh26560	ESP crashes with high scale QoS configuration
CSCvh29981	Suite-B Not Supported with ESP-200 on ASR1000-X Platform
CSCvh47443	Spoke-to-spoke site-prefix reachability checking should be removed
CSCvh47626	"ERR: Unable to connect to domain socket tamc_tams_socket" seen continuously
CSCvh48610	iwan router crash while updating pmi policy
CSCvh51038	[168] OSPF process crash on P router when 'router ospf <>' is unconfigured on another PE or P router
CSCvh53764	RP Unexpected reboot when using conditional debugging with CCSIP debug
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.
CSCvh57108	CPUHOG on QoS statistics collection for DMVPN. QoS crash with DMVPN/NHRP.
CSCvh57242	cpp-mcplo-ucode crash when layer 2 switching packet
CSCvh57340	DMVPN: Crypto session stuck into UP-IDLE status after reconfiguring tunnel
CSCvh58702	Router crashes after interface flap where sessions get moved from one interface to another
CSCvh58909	OSPFv3 cost calculation not correct in some specific topology
CSCvh60871	Unexpected Reboot following 'show platform software adjacency oce [ID]'
CSCvh64729	FP crash @cpp_qm_create_queue while adding fair-queue
CSCvh66033	IKEv2 - Crash with segmentation fault when debugs crypto ikev2 are enabled
CSCvh70356	ASR1K - ECMP load-balance w/ DPI L2TP Tunnel visibility and QoS may generate ucode crash

Caveat ID Number	Description
CSCvh75132	CPP crash stuck thread detected multikey_hash_replace_int
CSCvh82112	Polaris Routers - Memory leak under process RECMSPAPP in IOSd
CSCvh83215	IOS-XE Voice NIM/PVDM Service-Engine Admin Down leads to one-way audio
CSCvh95376	ASR1k reloaded after IPv4 RR stress test
CSCvh97923	Erroneous fan failure indication on some units - Speed Racer (ASR1001-HX)
CSCvh99576	LACP Rate defaults to fast with no way to change it to normal
CSCvi01558	iBGP dynamic peer using TTL 1
CSCvi01745	cpp_cp_svr crashes, causing reload
CSCvi05408	Memory leak due to asnl
CSCvi06312	Subsystem stopped: ios-emul-oper-db due to bgp table issue
CSCvi06897	dialpeer matching for inbound SIP profile fails with VRFs
CSCvi08470	OSPF: process crashed when the interface priority is configured for 0.
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
CSCvi13103	CSCvf77644 commit broke ISSU compatibility check
CSCvi14745	EPA-10X10GE or EPA-18X1GE - Memory leak with input mac-address accounting
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
CSCvi23169	ASR1006-X EPA card input errors
CSCvi27958	MIP100 get stuck in disconnecting state on FP reload
CSCvi31038	Interface on ASR1001-X will become down/down after shut/no shut
CSCvi35143	Repeatedly Tracebacks seen : %INFRA-3-INVALID_GPM_ACCESS: Invalid GPM Load

Caveat ID Number	Description
CSCvi35232	CME/BE4K crashes when trying to check help command for new device type BEKEM
CSCvi35960	VRF aware CUBE fails to send OOD OPTIONS pings
CSCvi41050	PFRv3 route-control is inconsistently set to "Disabled" on BR devices
CSCvi54878	Memory leaks seen at PKI_name_list_add(0xa139cc0)+0x3e
CSCvi55920	ISR 4K Crashes issuing "show call active voice"
CSCvi57868	Transit UDP traffic is punted to CPU and is treated as BFD control instead of being forwarded to dst
CSCvi63840	vif interface counters do not increment with multicast service reflection on IOS-XE
CSCvi74088	link local multicast packets are received when the SVI is in down state
CSCvi83419	Router crash when removing route-target and with hard clear
CSCvi86082	ASR1001-x crash due to wrong packet size
CSCvi96995	LACP encapsulated VLAN is classified as STP BPDU's
CSCvj16818	ISR 4431 crashing immediately following auto-CA certificate renewal
CSCvj23301	IOS: Crypto Ruleset fails to get deleted

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](#).

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

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