

Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Everest 16.4

First Published: 2016-11-30

Last Modified: 2017-04-30

About Cisco ASR 1000 Series Aggregation Services Routers



Note

Come to the Content Hub at content.cisco.com, where, using the Faceted Search feature, you can accurately zoom in on the content you want; create customized PDF books on the fly for ready reference; and can do so much more...

So, what are you waiting for? Click content.cisco.com now!

And, if you are already experiencing the Content Hub, we'd like to hear from you!

Click the **Feedback** icon on the page and let your thoughts flow!

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.

New Features and Important Notes

New and Changed Information

**Note**

Before you dive into this release's features, we invite you to content.cisco.com to experience the features of the [Cisco Content Hub](#). Here, you can, among other things:

- Create customized books to house information that's relevant only to you.
- Collaborate on notes and share articles by experts.
- Benefit from context-based recommendations.
- Use faceted search to close in on relevant content.

And, if you are already experiencing the Content Hub, we'd like to hear from you!

Click the **Feedback** icon on the page and let your thoughts flow!

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 Everest 16.4.1

No new hardware features were introduced for Cisco ASR 1000 Series in Cisco IOS XE Everest 16.4.1.

New Software Features in Cisco IOS XE Everest 16.4.1

The following are the new software features introduced in Cisco ASR 1000 Series Aggregation Services Routers for Cisco IOS XE Everest Release 16.4.1.

18x1GE EPA Support in Modular platforms

For detailed information, see the following Cisco document:

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

5 Tuple Hash Support for GEC Flow-based Load Balancing

For detailed information, see the following Cisco document:

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

802.1X support on ISR 4K and Switch Modules

For detailed information, see the following Cisco document:

<http://www.cisco.com/c/en/us/td/docs/routers/access/interfaces/NIM/software/configuration/guide/4-8-port-ge-nim-guide.html>

Asymmetric Routing Serviceability

This feature provides support for displaying asymmetric flows on unknown, HTTP, and SSL traffic. It introduces the `show ip nbar classification auto-learn top-asymmetric-sockets` command. More information about this command is available at this link: <http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos/command/qos-cr-book/qos-s2.html>.

ASR1000: EPA 2x40G Support

For detailed information, see the following Cisco document:

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

Bypass NAT functionality

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/nat-xe-16-book/iadnat-addr-consv.html

Cisco SSL 6.0 FOM

Cisco SSL 6.0 is used to upgrade openssl to 1.0.2 g. The security updates will be available for the next three years. From Cisco IOS XE Everest 16.4.1, RC4 and DES ciphers have been blocked and will no longer be supported as they are considered vulnerable.

CLI for showing applications assigned to a specific traffic-class and business-relevancy

This feature provides support for matching two attribute/attribute-value combinations using the `show ip nbar attribute` command. More information about this command is available at this link: <http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos/command/qos-cr-book/qos-s2.html>.

DMVPN Multiple Tunnel Termination

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_dmvpn/configuration/xe-16/sec-conn-dmvpn-xe-16-book/sec-conn-dmvpn-mtt.html

DNA SA Border Support

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_lisp/configuration/xe-16/irl-xe-16-book.html

ERSPAN with VLAN filtering

For detailed information, see the following Cisco document:

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

FlexVPN Mixed Mode v6 over v4 transport

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_vpns/configuration/xe-16/sec-sec-for-vpns-w-ipsec-xe-16-book/sec-ipsec-virt-tunnl.html

L2&L3 EoGRE GW Support

For detailed information, see the following Cisco documents:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iwag/configuration/xe-16/IWAG_Config_Guide_BookMap.html

LAN and WAN MACSec Interop

The LAN-WAN MACsec interoperability feature is supported on the following Cisco devices:

- Cisco ASR1001-X Router
- Cisco 4400 Intergrated Services Routers (With 2-port Wallander NIM)
- Cisco 4300 Intergrated Services Routers (With 2-port Wallander NIM)
- Cisco Catalyst 3850 Series Switches
- Cisco Catalyst 4500-X Series Switch

The topology could be any two devices from the above list that are connected back-to-back (without any intermediate device). The working scenarios for this feature are as follows:

- MKA-MACsec with pre-shared key only for the P2P-port-based deployment model.
- MACsec Cipher Suites supported between ASR/ISR routers and C4500-X is GCM-AES-128 only.
- MACsec cipher suites supported between Cisco ASR 1000 Series Aggregation Services Routers or Cisco 4000 Series Integrated Services Routers and Cisco Catalyst 3850 Series Switches is GCM-AES-128 only. However, Cipher Suite GCM-AES-256 can also be used on some of the Cisco Catalyst 3850 Series Switches (depending on the ASIC used in the device), which do support this interoperability.

MACSec ASR1001-HX Platform Enablement

Cisco ASR 1001-HX Router is a part of the Cisco ASR 1000 Series and offers a compact form factor that consumes less rack space and power while offering 60 Gbps forwarding throughput. Cisco ASR 1001-HX Router supports all general purpose routing and security features of Cisco ASR 1000 Series Aggregation Services Routers.

Effective with Cisco IOS XE Everest 16.4.1, MACsec is supported on Cisco ASR 1001-HX Router.

MACSec Support 10X10GE EPA For Kahuna

Cisco ASR 1002-HX Router is a part of the Cisco ASR 1000 Series and offers a compact form factor that consumes less rack space and power while offering 100 Gbps forwarding throughput. Cisco ASR 1002-HX Router supports all general purpose routing and security features of Cisco ASR 1000 Series Aggregation Services Routers.

Effective Cisco IOS XE Everest 16.4.1, MACsec is supported on Cisco ASR 1002-HX Router in the 10-Port 10 Gigabit Ethernet Port Adapter (EPA-10X10GE).

Nginx/HTTP - Web Security Features for 16.4

For detailed information, see the following Cisco document:

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

QoS: DMVPN per-tunnel QoS over aggregate GEC

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_mqc/configuration/xs-16/qos-mqc-xe-16-book/aggregate-etherchannel-quality-of-service.html

QoS: Tunnel pre-classify uses internal address for fair-queue distribution

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/qos_mqc/configuration/xs-16/qos-mqc-xe-16-book/qos-apply.html

Security (ACL) enhancements

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_acl/configuration/xs-16/sec-data-acl-xe-16-book.html

Security (ARP/NDP cache entries) enhancements

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipaddr_arp/configuration/xs-16/arp-xe-16-book/arp-config-arp.html

Security (punt policing) enhancements

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_data_zbf/configuration/xs-16/sec-data-zbf-xe-16-book/sec-zone-pol-fw.html

MACSec Support

For detailed information, see the following Cisco document:

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

Site to Site IPSEC VPN for WEBUI

- **Site-to-Site VPN**—A Virtual Private Network (VPN) allows you to protect traffic that travels over lines that your organization may not own or control. VPNs can encrypt traffic sent over these lines and authenticate peers before any traffic is sent. Site-to-Site VPN feature allows you to create a VPN network connecting two routers.
- **Cellular Interface**—The Cellular Interface feature supports the Fourth Generation (4G) Long-Term Evolution (LTE) and its primary application is Cellular WAN connectivity, which functions as a primary or backup data link for critical data applications.
- **Configuring Application Visibility**—Enhanced to include Application Signatures identifier based on NBAR engine version 28. NBAR engine version changes if you update the protocol package.

Support for EPA-1X100GE

For detailed information, see the following Cisco document:

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

TrustSec SGACL monitor mode on routers (ASr1K, ISR4K, CSR)

For detailed information, see the following Cisco document:

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_usr_cts/configuration/xe-16/sec-usr-cts-xe-16-book/sec-cts-sgacl.html

Type 4 PWE VLAN rewrite

For detailed information, see the following Cisco document:

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

ZBFW - Per-filter stats enhancement

For detailed information, see the following Cisco document:

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

New Hardware Features in Cisco IOS XE Everest 16.4.2

No new hardware features were introduced for Cisco ASR 1000 Series in Cisco IOS XE Everest 16.4.2.

New Software Features in Cisco IOS XE Everest 16.4.2

No new software features were introduced for Cisco ASR 1000 Series in Cisco IOS XE Everest 16.4.2.

Important Notes

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

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.

SUMMARY STEPS

1. In your browser, navigate to the [Cisco Bug Search Tool](#).
2. If you are redirected to a Log In page, enter your registered Cisco.com username and password and then, click Log In.
3. To search for a specific bug, enter the bug ID in the Search For field and press Enter.
4. To search for bugs related to a specific software release, do the following:
5. To see more content about a specific bug, you can do the following:
6. To restrict the results of a search, choose from one or more of the following filters:

DETAILED STEPS

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

- Step 6** To restrict the results of a search, choose from one or more of the following filters:

Filter	Description
Modified Date	A predefined date range, such as last week or last six months.
Status	A specific type of bug, such as open or fixed.
Severity	The bug severity level as defined by Cisco. For definitions of the bug severity levels, see Bug Search Tool Help & 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 Everest 16.4.1

Open Caveats—Cisco IOS XE Everest 16.4.1

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

Caveat ID Number	Description
CSCvc16686	AVC/ezPM Incorrectly Reports Pfrv3 Smart-Probe Statistics
CSCvc14951	CSR crashes cpp_mma_policy_isd_free_exmem_entry
CSCvc19074	AWS : CSR crashes with t2 instances running for long
CSCuz51603	multicast crashed with invalid leaf pointer
CSCvb94718	TC is being tried to be deleted unsuccessfully from a PFR/VRF routine in a 3925 router
CSCvb66420	PFR Sync Issues between MC and Border router ,active probes are missing on border router randomly
CSCvb87341	Ping to ASR1k with a MTU of 10000 Bytes and record option set fails
CSCvc08339	ISR 4331 + NIM-1MFT-T1/E1 + Frame-relay circuit does not come up
CSCvb62115	cman_fp CPUHOG Traceback during FP Switchover
CSCvb98483	add ipsla timestamping support to asr1001hx
CSCvc09950	NBAR performance drop on Kahuna platform
CSCvc11012	PFR continuously Path Changed due to UNREACHABLE Received
CSCvb89732	memory leak in MPE when signature amount reaches amount using the Dynamic DB
CSCvc03290	RP3/ESP100 and ISRs not scaling to known targets for NAT44 PAT
CSCvb98210	ASR1001-X Polaris image Pfr provisioning failed with channel-unreachable-timer for Pfr MC
CSCvc01982	PFRV3: Crashed at Segmentation fault(11), Process = CENT-MC-vrf106
CSCvc13224	Local Unreachable TCA not processed by master causing traffic switch on routing converge
CSCvc13442	PFRV3: Transit MC crashed @be_cent_ipc_site_pfx_origin_delete
CSCvc06521	Intermittent EPA-18X1GE and EPA-10x10GE repeated crash on stop/start with traffic
CSCvb67886	rp2/rp3: fsck and format harddisk fails when rtr booted from harddisk
CSCvb71160	ASR 1013: Imagefamily mismatching
CSCvb78101	XE313: Incorrect Active flows showing up in flow monitor
CSCvc00703	Polaris : ASR1k EPC PPS limit functionality not working as required.

Caveat ID Number	Description
CSCvb35300	Reload boot time is longer than expected on GoldBeach P2 and Juno
CSCvb77131	clear ipv6 neighbor makes stby out of sync for the ND cache entries
CSCvc24833	Per interface ND limit stops working post RP switchover
CSCuy17600	Getting of_irq_parse_pci() failed with rc=-22 on reloading of Argus EPA
CSCva49710	ASR1k: serdes bad packet count increases in "sh plat hard slot F< 0 1 > serdes stat"
CSCvb39392	serdes bad byte counter increase in "sh plat hard slot 0 1 serdes stat"
CSCvb94838	Traceback outputs in Standby-RP. cause:show license standby
CSCvc26641	Core file and ping fails while configuring sonet interface

Resolved Caveats—Cisco IOS XE Everest 16.4.1

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

Caveat ID Number	Description
CSCvb95069	FTP Passive mode: NAT door limit being exceeded
CSCvb62767	NATed packets are dropped by ALG_PROCESS_TOKEN_FAIL due to NAT door limit being exceeded
CSCvb95663	NIM-2GE-CU-SFP : Cannot ping GLBP Gateway IP
CSCvb91834	CPP crash with enched+None SF combination
CSCvb18256	PfRv3 Channels Not Deleted Once TC is Removed
CSCvb17379	PfRv3 border will learn master prefix When the package is fragments.
CSCvb82048	Dual QFP Crash triggered by removing service policy from interface with mixed shaper feature enabled
CSCvb77550	PfR channels Unreachable with quick monitor and quick monitor probes to 1 in 10 secs
CSCvc05272	SFF crashes when redirect interface on the same subnet as SF
CSCva72274	PfRv3: BR May Crash due to Channel Creation/Modification and Next-Hop State

Caveats in Cisco IOS XE Everest 16.4.2

Open Caveats—Cisco IOS XE Everest 16.4.2

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

Caveat ID Number	Description
CSCvc21471	kernel: fsid server error fileid changed
CSCvc42059	tracelogs/punt_debug.log* missing when punt keepalive timeout / crash occurs
CSCvb64301	ASR1000-6TGE: Too many "Interface TenGigabitEthernet4/0/0, link down due to local fault" logs
CSCve09829	ISSU: 16.3.4 <-> 16.5.1 Config_Sync@lACP rate fast after Loadversion in RP2 platforms
CSCvc99951	Input errors on glc-ge-100fx
CSCvd15140	Router crashes using show BGP commands
CSCvd47657	Router crashed in afw application
CSCvc65935	ISR4451-X/K9 -16.3.2 crash when configure NAT66 reason:LocalSoftADR
CSCvc08361	Crash in XE3.17 in TCP-TLS B2B call scenario
CSCvc33794	CSR1000v HA Checkpointing Broken for Video Calls with SDP Pass-Thru
CSCuy91126	POLARIS: IPSec FlexVPN PSK does not scale on asr1013/RP2/ESP100
CSCvc35196	Behavior difference between XE3.17 and Polaris
CSCvb94852	IKEV2 Default Proposal Reset After Reload
CSCvd39741	IOS IKEv2 profile NVgen local auth is rejected from startup configuration upon reload
CSCve07263	IPSec Tunnel stuck in Up/Down state after shut/no-shut - VPN Interop
CSCvb57376	RSP3:standby router crashes due to parser return error
CSCvb92701	OSPF SR SID Conflict: two prefixes have the same sid and no conflict is detected.
CSCvd89428	ASR1002-HX crash on configuring mpls-lsp-monis-lsp-monitor
CSCvb79683	OSPF SID Conflict: when SR disabled on OSPF inst other inst sids affecte

Resolved Caveats—Cisco IOS XE Everest 16.4.2

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

Caveat ID Number	Description
CSCvc01133	ASR 1000 router crash while updating ogacl statistics
CSCvb78833	Router crashes when RF/PPPoE link goes down
CSCvc49148	Harddisk is not accessible from IOS sometimes after router reload
CSCvc06453	As1k @ CFM traffic frames being sent with 2 dot1q tags
CSCvb30256	ASR1000-2T+20X1GE: More than 1Gbps traffic is reported on 1GE port
CSCvb49832	ASR1k-ELC- XCVR disabled after router reload and interface is down
CSCvc06521	EPA-18X1GE and EPA-10x10GE reloads unexpectedly with traffic and EPA OIR
CSCvb01450	IP/ARP connection failed between two direct-connected interfaces
CSCvc23830	Vlan Oversubscription packets are not working.
CSCvc14951	CSR crashes cpp_mma_policy_isd_free_exmem_entry
CSCvb36753	Ingress Unicast traffic not received on the BDI.
CSCvc91743	Platform does not trigger license release when the port moves into error disable state
CSCvc26824	AN: ACP is not getting created after save & reload in some specific scenario
CSCvb62685	AN: Channel/Nbr flap during bootstrap in ASR903 with standby RSP.
CSCuz85280	AN: Standby reload due to config-sync failure at CISCO_AN_IPSEC_PROFILE
CSCvc42729	Autonomic Networking Infrastructure Adjacency Discovery DoS Vulnerability
CSCvc42717	Autonomic Networking Infrastructure Registrar Device Reload
CSCvc89965	After reload route policy processing not re-evaluate with route-map using match RPKI
CSCvd09584	eVPN PMSI VNI decoding / encoding as MPLS label
CSCvb85945	Router crash @ IP RIB Update while deleting bgp config
CSCvb75286	RP crash @ BGP router with "import l2vpn evpn re-originate"
CSCvb53469	Ephone-DN remains in down state when restart all is given in telephony-service

Caveat ID Number	Description
CSCvc63958	SIP CME relays out "Authorization: header" received from IP Phone.
CSCvb51806	Router crash when removing EIGRP
CSCvd04210	IKEV2 Tunnels are flapping, rekey request received from PD, lifetime kilobytes configured
CSCvc55378	ASR1k crashed while unconfiguring Netflow
CSCvc32062	Evaluation of IOS XE BinOS component for Openssl September 2016
CSCvc26134	self-generated packets sent fail over PMIP-MUUDP tunnel in LMA
CSCva05558	IKEv2 IPv6 GRE IPsec fails to stabilize on asr1k on 16.3
CSCvd40880	Modifying crypto ACL leads to a removal of crypto map config
CSCvc59750	IKEv2 Aggregate-auth Timing Issue
CSCvc99738	IKEv2 tunnel fails to come up b/w Cisco routers post upgrading one router to 15.5(3)S5, 15.5(3)M5
CSCvd69373	IKEv2: Unable to initiate IKE session to a specific peer due to 'in-neg' SA Leak
CSCvd47757	csr1000v is not able to poll CISCO-IPSEC-FLOW-MONITOR-MIB
CSCvc51408	ISIS route oscillation due to ldp sync and interface max metric
CSCvb58857	LDP NSR : Remote Side VCs stays up even with local access interface shut after SSO
CSCvb49730	VFI is down after provisioning a new new VFI to the existing
CSCvc35325	MK51-UCI, Mcast traffic is blackholing on ISSU CV while upgrading from FC5 to FC6
CSCvc17525	complete traffic drop with DATA MDTs with latest polaris_dev
CSCvc90685	Accounting Stop not sent for PMIPv6 tunnel in LMA
CSCvc54049	Ignore home address is broken in MAG/LMA
CSCvd28966	MAG crash with traffic on and home interface config is removed
CSCvc03651	SSH / Telnet / Console freezes while bringing up PMIPv6 tunnel interface
CSCvc21452	ASR903:ISIS routes are set with Max Metric due to IGP LDP Sync
CSCva44687	ASR 1K Running IOS-XE 3.16S w/ MPLS Crashes on 'clear ip route *'

Caveat ID Number	Description
CSCvb88373	MRCP V2 logging tag support
CSCvc99925	ASR 1k NHS Fallback fails for NHRP on secondary path
CSCva70115	ISR4331 crash due to NHRP running 03.16.03.S
CSCva97469	VA stuck in protocol down state after failing to establish IPsec session
CSCvc19234	Old Constrained Node Sid not getting deleted from MPLS forwarding table on changing SID
CSCvb34173	OSPF SR SID Conflict: SID is not installed for route via virtual-link
CSCvc12420	OSPF SRTE: CSTR path is not installed in some cases properly.
CSCvc19844	SID conflict: Even after an area is removed from topology, SID database does not remove the area.
CSCvc54359	SRTE: Single hope tunnel doesn't install any repair path.
CSCvc23238	SRTE: when i/f address is removed, traceback is seen and adj-sids not destroyed.
CSCvc54211	Tunnel & repair path continuously flapping on disabling SR on next node from head-end.
CSCvb96706	Client auth and enroll to subca fails
CSCvc33707	crash after multiple renew
CSCvd58884	During PKI enrollment, Cisco router rejects CA/RA reply containing HTTP 500 "Internal Server Error"
CSCvb73018	PKI: Cannot import RSA SubCA signed by ECDSA
CSCvd82881	16.6: ASR1K: RP crash seen @cpp_bqs_rm_yoda_init_or_save_child.
CSCvc55747	ASR1K ESP100 - Both ESP crashing due to cpp_bqs_srt_yoda_place_child_internal: failed to grow tree
CSCvc71183	ASR1K ESP100 - Both ESP crashing due to cpp_bqs_srt_yoda_place_child_internal: failed to grow tree
CSCvc48813	BQS unable to resume processing leading to pending objects constantly increasing
CSCvc83373	cpp_cp process crashes due to sw wdog expiring while creating a queue
CSCvc80135	Crash when bandwidth remaining percent <#> is removed then re-added to a class-map
CSCvd68301	Crash when interface with multiple tunnels sourced comes up

Caveat ID Number	Description
CSCvb82048	Dual QFP Crash triggered by removing service policy from interface with mixed shaper feature enabled
CSCvc74759	Dual QFP Crash triggered by removing service policy from interface with mixed shaper feature enabled
CSCvd23034	Multiple Parent Events Per Node lead to a crash
CSCvd47310	Secondary SUP keep crashing @ CPP Client process failed
CSCvb87341	Ping to ASR1k with a MTU of 10000 Bytes and record option set fails
CSCva31708	SR:RSP2:Object download failure(EOS object)error seen randomly
CSCvb44207	CTS/SGT across GRE p2p tunnel broken when doing inline tagging
CSCvc26599	ASR crashes when attempting SRTP/TLS call
CSCvb48683	Evaluation of all for Openssl September 2016

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](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). RSS feeds are a free service.

