



# Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Bengaluru 17.6.x

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## About Cisco ASR 1000 Series Aggregation Services Routers

The Cisco ASR 1000 Series Routers carry a modular yet integrated design, so network operators can increase their network capacity and services without a hardware upgrade. The routers are engineered for reliability and performance, with industry-leading advancements in silicon and security to help your business succeed in a digital world that's always on. The Cisco ASR 1000 Series is supported by the Cisco IOS XE Software, a modular operating system with modular packaging, feature velocity, and powerful resiliency. The series is well suited for enterprises experiencing explosive network traffic and network service providers needing to deliver high-performance services.




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**Note** For more information on the features and specifications of Cisco ASR 1000 Series Routers, refer to the Cisco ASR 1000 Series Routers [datasheet](#).

For information on the End-of-Life and End-of-Sale Announcements for Cisco ASR 1000 Series routers, refer to the [ASR 1000 Series End-of-Life and End-of-Sale Notices](#).

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**Note** Cisco IOS XE Bengaluru 17.6.1a is the first release for Cisco ASR 1000 Series Aggregation Services Routers in the Cisco IOS XE Bengaluru 17.6.x release series.

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**Note** Starting from IOS XE 17.5, the following consolidated platforms (or with dual IOSd ) will move to monolith packaging and therefore it will not be possible to upgrade/downgrade using separate packages.

- ASR1001-HX
  - ASR1001-X
  - ASR1002-X
  - ASR1002-HX
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Instead use the command **install add file bootflash:<file name> activate commit** command to upgrade using a single image that combines all the separate packages therefore improving the boot time

Starting from IOS XE 17.6, the ISSU on Cisco ASR 1000 Series Aggregation Services Routers will migrate to an install workflow that provides step-by-step upgrade/downgrade commands.

The ISSU load version commands will be deprecated and these commands include:

- abortversion,
- acceptversion,
- checkversion

- commitversion
- config-sync
- image-version
- loadversion
- runversion

Additionally, dual IOSd ISSU commands and Bundle mode ISSU workflows will also be disabled.



**Note** The In-Service Software Upgrade (ISSU) in ASR 1000 is being migrated to an install workflow that provides a step-by-step upgrade/downgrade. Starting from IOS-XE 17.6.1a, the following items will be disabled:

- The ISSU load version command set including **issu loadversion**, **issu runversion**, **issu acceptversion** and **issu commitversion**
- Dual IOSd ISSU commands
- Bundle mode ISSU workflow



**Note** Starting with Cisco IOS XE 17.3.x, with the introduction of Smart Licensing Using Policy, even if you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is displayed. This change in the display can be observed in all licensing utilities and user interfaces where the hostname was displayed in earlier releases. It does not affect any licensing functionality. There is no workaround for this limitation.

The licensing utilities and user interfaces that are affected by this limitation include only the following:

- Cisco Smart Software Manager (CSSM),
- Cisco Smart License Utility (CSLU), and
- Smart Software Manager On-Prem (SSM On-Prem).

## Product Field Notice

Cisco publishes Field Notices to notify customers and partners about significant issues in Cisco products that typically require an upgrade, workaround or other user action. For more information, see <https://www.cisco.com/c/en/us/support/web/field-notice-overview.html>.

We recommend that you review the field notices to determine whether your software or hardware platforms are affected. You can access the field notices from <https://www.cisco.com/c/en/us/support/web/tsd-products-field-notice-summary.html#%7Etab-product-categories>.

## New and Changed Software Features in Cisco IOS XE 17.6.6a

There are no new features in this release. This release provides a fix for [CSCwh87343](#): Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: [cisco-sa-iosxe-webui-privesc-j22SaA4z](#).

## New and Changed Software Features in Cisco IOS XE 17.6.6

There are no new software features in this release.



**Note** See the [End-of-Sale and End-of-Life Announcement for the Cisco IPsec Static Crypto Map and Dynamic Crypto Map Feature in IOS XE](#) page for information about the end-of-life milestones for the Cisco IPsec Static Crypto Map and Dynamic Crypto Map feature.

## New and Changed Software Features in Cisco IOS XE 17.6.5a

There are no new features in this release. This release provides a fix for [CSCwh87343](#): Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: [cisco-sa-iosxe-webui-privesc-j22SaA4z](#).

## New and Changed Software Features in Cisco IOS XE 17.6.5

There are no new software features in this release.

## New and Changed Software Features in Cisco IOS XE 17.6.4

There are no new software features in this release.

## New and Changed Software Features in Cisco IOS XE 17.6.3a

There are no new software features in this release.

## New and Changed Software Features in Cisco IOS XE 17.6.2

There are no new software features in this release.

## New and Changed Software Features in Cisco IOS XE 17.6.1a

*Table 1: New Software Features in Cisco 1000 Series ASR Release Cisco IOS XE 17.6.1a*

Feature	Description
<a href="#">Asymmetric Lease for DHCPv6 Relay Prefix Delegation:</a>	This feature allows you to manage or change the lease renewal. It provides options to force renewal of lease and also detects when the lease is nearing the expiry date.

Feature	Description
<a href="#">BGP Serviceability Enhancements for EVPN and MVPN</a>	<p>This feature includes the following enhancements</p> <ul style="list-style-type: none"> <li>• <b>MAC address format for Type-2 EVPN routes:</b> This enhancement provides three different Mac address formats suitable for various components such as L2RIB, CEF and EVPN.</li> <li>• <b>EVPN Type-2 and Type-5 Routes Checking:</b> This enhancement provides an updated output for the <b>show ip bgp l2vpn evpn</b> command. The updated output removes redundant keywords for Type-2 and Type-5 routes, and filters and retrieves matching routes based on both MAC and IP address.</li> <li>• <b>MVPN/EVPN Routes Check Simplification:</b> With this enhancement, users can avoid manual re-typing of key fields and directly copy details from the <b>show ip bgp l2vpn evpn</b> and <b>show ip bgp ipv4 mvpn</b> summary outputs.</li> </ul>
<a href="#">Best Practices for Increased Scaling of IS-IS Neighbors</a>	<p>This enhancement introduces commands that let you configure increase scaling of neighbors in a hub and spoke deployment using the following criterions</p> <ul style="list-style-type: none"> <li>• Reducing flooding over parallel peer to peer links</li> <li>• Staggered synchronization of adjacencies after router reload</li> <li>• Configuring CLNS queue size and monitoring CLNS and IS-IS queues</li> </ul>

Feature	Description
BMP Per-Peer Header Timestamp:	<ul style="list-style-type: none"> <li>• By default, the BMP messages with per-peer header contain timestamps. The system time is used as a timestamp in these messages. To notify users about this enhancement, the show ip bgp bmp server summary command output includes the message - "BGP Message Timestamp will be sent to BMP Servers".</li> <li>• CFM operation and action model: This feature introduces a NETCONF/YANG model to perform the following functions: <ul style="list-style-type: none"> <li>• Display Ethernet CFM maintenance-points data for local MEP, local MIP, remote MEP, or database.</li> <li>• Activate or deactivate CFM latching loopback and start or stop OAM remote loopback.</li> <li>• This model helps you to gain more visibility into the timing of the service operations and manage network devices from a centralised orchestration application such as Cisco DNAC.</li> </ul> <p>For more information, see Programmability Configuration Guide.</p> </li> </ul>
IEEE802.1ad Support on Port-channel and Subinterfaces:	This feature supports configuring IEEE802.1ad on port-channel, port-channel subinterfaces and port-channel member links with configurable ethertypes, in addition to configuration on physical interfaces.
L2VPN Traffic Steering Using SR-TE Preferred Path	This feature allows you to configure an SR policy as the preferred path for a VPWS or VPLS pseudowire. VPWS or VPLS pseudowires between same PEs can be routed over different SR policies based on the requirements.
Pyang version 2.x	The updated pyang plugin version 2.x fixes existing issues such as XPATH validation and upstream pyang issues. Additionally, this version reports all errors in the YANG models to the users and enforces a strict model validation.

Feature	Description
Redistribution of leaked routes into BGP:	<ul style="list-style-type: none"> <li>• Allows you to leak (or replicate) routes between the global VRF and service VPNs, and redistribute the leaked routes into the destination protocol BGP. The redistribution of the leaked routes occurs after replicating the routes into the corresponding VRF. Route leaking allows you to share common services that multiple VPNs need to access. The source protocols that support route leaking and redistribution of routes into the destination protocol BGP are as follows:               <ul style="list-style-type: none"> <li>• Connected</li> <li>• Static</li> <li>• BGP</li> <li>• OSPF</li> <li>• EIGRP</li> </ul> </li> </ul>
Secure Factory Reset:	The Secure Factory Reset feature introduces the <b>factory-reset secure all</b> command that you can use to erase the contents of the bootflash memory, and securely reset the device using 3-pass overwrite method.
Zone-Based Firewall Reclassification:	The Zone-Based Firewall (ZBFW) Reclassification feature is an enhancement to the Zone-Based Firewall feature. With this enhancement, any changes you make to the policy configuration on an existing firewall session is immediately enforced.
Voice: Class of Restriction YANG Configuration Model:	<p>YANG models were developed for the following CLIs as part of the Class of Restriction configuration:</p> <ul style="list-style-type: none"> <li>• dial-peer voice &lt;tag&gt; pots/voip corlist</li> <li>• dial-peer voice vad</li> <li>• dial-peer cor custom name &lt;string&gt;</li> <li>• dial-peer cor list &lt;string&gt; member &lt;string&gt;</li> <li>• voice num-exp &lt;string1&gt; &lt;string2&gt;</li> <li>• voice register pool &lt;string&gt; [no] cor {incoming   outgoing} cor-list-name {cor-list-number starting-number [- ending-number]   default}</li> </ul>

Table 2: New Software Features in Cisco 1000 Series ASR Release Cisco IOS XE 17.6.2

Feature	Description
Snapshots for PAK Licenses	<p>The library that manages product activation key (PAK) licenses is being deprecated from the software image. To continue supporting and honouring any existing PAK licenses you may have, the system automatically takes a snapshot of the PAK license and triggers a Device-Led Conversion process, to convert the PAK license to a Smart License. For the system to take the snapshot, the software version running on your device must be one of the required releases.</p> <p>For information about the releases in which the system can take a snapshot, and the options that are available with respect to the device and the license, see <a href="#">Snapshots for PAK Licenses</a>.</p>



**Note** From Cisco IOS XE Bengaluru 17.6.x, configuring a weak crypto algorithm generates a warning message. However, you can ignore this warning because the working of crypto algorithms is not impacted. For more information on weak crypto algorithms, see [Supported Standards](#).

## Cisco Bug Search Tool

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

### Resolved and Open Bugs for Cisco IOS XE Bengaluru 17.6.x

#### Resolved Bugs in Cisco IOS XE Bengaluru 17.6.7

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

Bug ID	Description
<a href="#">CSCwh73350</a>	Device keeps crashing when processing a firewall feature.
<a href="#">CSCwh99399</a>	FTMD crash observed in the device while running the PWK suite.
<a href="#">CSCvo01546</a>	NHRP reply processing may dequeue an unrelated request.
<a href="#">CSCwh49644</a>	CSDL compliance failure: use of 3DES by IPSec is denied.
<a href="#">CSCwi01046</a>	PoE module is not providing enough power to bring up the ports after an unexpected reload.
<a href="#">CSCwh01425</a>	ITU channel configuration seems not working on the device.
<a href="#">CSCwh20577</a>	Crashed by TRACK Client thread at access to an invalid memory location.



Bug ID	Description
<a href="#">CSCwh70449</a>	PMTUD incorrectly converging without attempting to learn a higher MTU.
<a href="#">CSCwi59202</a>	MFG Manhattan C-NIM-2T with SwitzerCC can't boot up in the operating system.
<a href="#">CSCwf34171</a>	<b>configure replace</b> command fails due to the license udi PID XXX SN:XXXX line on devices.
<a href="#">CSCwh36801</a>	Crash in IP input process during tunnel encapsulation.
<a href="#">CSCwf99947</a>	Crash when modifying the tunnel after running <b>show crypto</b> commands.
<a href="#">CSCwh26209</a>	Device crashed with no microcode due to possible dataplane memory corruption in the NAT client.
<a href="#">CSCwh30377</a>	Device's data plane crash in DNS processing due to incorrect UDP length.
<a href="#">CSCwf89154</a>	EZMAN posted stats to APIs: ingress and egress byte counters suddenly jump for sub-interfaces.
<a href="#">CSCwi28781</a>	EPBR will generate an error when the policy is added and deleted multiple times.

#### Open Bugs in Cisco IOS XE 17.6.7

There are no open bugs for this release.

#### Resolved Bugs in Cisco IOS XE 17.6.6a

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

Bug ID	Description
<a href="#">CSCwh87343</a>	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: <a href="#">cisco-sa-iosxe-webui-privesc-j22SaA4z</a>

#### Open Bugs in Cisco IOS XE Bengaluru 17.6.6a

Caveat ID Number	Description
<a href="#">CSCwe37016</a>	The output rate on port channel does not match with the total physical interface output rate.
<a href="#">CSCwh14083</a>	High CPU due to MPLS MIB poll.
<a href="#">CSCwd16559</a>	ISG FFR: ARP request to reroute nexthop IP is not triggered if ARP entry not in ARP table.
<a href="#">CSCwf99647</a>	SRTP cipher failure for RTCP packets when AEAD_AES_256_GCM Cipher is used for call.
<a href="#">CSCwh21376</a>	Unable to disable the call-home feature on devices.
<a href="#">CSCwb51779</a>	Cisco IOS XE software privilege escalation vulnerability.

Caveat ID Number	Description
<a href="#">CSCwe93070</a>	Tracebacks seen when configuring VRF with 32 characters or more.
<a href="#">CSCwf80400</a>	IOS XE router may experience unexpected reset while executing <b>show utd engine standard statistics</b> .
<a href="#">CSCwd46688</a>	Unable to apply the service policy on tunnel interface.
<a href="#">CSCwf55243</a>	Device is crashing while adding a trustpoint to the router.
<a href="#">CSCwe29301</a>	AOM objects (FMAN_OBJ_ACL_REF) might be missing intermittently after MMA flapping.
<a href="#">CSCwe90119</a>	Device-tracking database entry stuck on UNKNOWN state with temporal mac address.
<a href="#">CSCwh15021</a>	QFP crash when configuring S2S VPN (IKEv2/IPSEC) with Azure vWAN/HUB.
<a href="#">CSCwf55145</a>	SFP transceiver DOM not working after some time, however interface forwards the traffic as expected.
<a href="#">CSCvu85539</a>	Unable to delete wrong interface name.
<a href="#">CSCwd97212</a>	UNIX-EXT-SIGNAL: Segmentation fault(11), Process = IOSXE-RP punt service process.
<a href="#">CSCwe14885</a>	VPN is established although the peer is using a revoked certificate for authentication.
<a href="#">CSCwc67429</a>	CTS PI changes for adding new binding source priority for LISP sourced local host bindings.
<a href="#">CSCwh45169</a>	Unexpected reboot while displaying information from cleared SSS session.
<a href="#">CSCwb99084</a>	OMP routes carrying prepended AS_PATH incorrectly imported into BGP at remote site.
<a href="#">CSCwh49644</a>	CSDL Compliance failure : Use of 3DES by IPsec is denied.
<a href="#">CSCwe91898</a>	Environmental syslog is not appearing when power cord is disconnected from the redundant PS.
<a href="#">CSCwb89958</a>	Unified Policy HSL not sending properly NBAR application information.
<a href="#">CSCvz68895</a>	The device crashed after adding trustpoint
<a href="#">CSCvz32960</a>	%IOSXE-3-PLATFORM: R0/0: /usr/sbin/pkg_to_tree: Failed to parse the key record 0. (28).
<a href="#">CSCwf95535</a>	Intf/System xml files are not generated on device.
<a href="#">CSCwf99947</a>	Crash when modifying tunnel after running <b>show crypto</b> commands.
<a href="#">CSCwd16419</a>	Device unexpected reload generates PUBD core.
<a href="#">CSCwd97077</a>	Device leaking memory in MallocLite because of telemetry subscription to collect FNF cache.

Caveat ID Number	Description
<a href="#">CSCwf78735</a>	Device uses the NIM-1T/4T card for interconnection, and NAT+ GRE over ipsec cannot be applied.
<a href="#">CSCvy94747</a>	GRACEFUL-RELOAD: Wrong state: 1 to receive chasfs event.
<a href="#">CSCwh12093</a>	SOS/ROC Feature on NIM.
<a href="#">CSCwh30377</a>	Device data plane crash in Umbrella/OpenDNS processing due to incorrect UDP length.
<a href="#">CSCwf34171</a>	<b>configure replace</b> command fails due to the license udi PID XXX SN:XXXX line on IOS-XE devices.
<a href="#">CSCwh45579</a>	Unexpected reload on device UCode core @l2_dst_output_goto_output_feature_ext_path.
<a href="#">CSCvz82148</a>	%CRYPTO_SL_TP_LEVELS-6-VAR_NEW_VALUE message is observed in each write config with same crypto value.
<a href="#">CSCwf80191</a>	Flowspec on device won't revoke.
<a href="#">CSCwh00963</a>	Unable to migrate from ADSL to VDSL without reboot on device.
<a href="#">CSCwf41084</a>	Extranet multicast code improvements for better handling of data structure.
<a href="#">CSCwc87565</a>	Unexpected reload due to a watchdog on the kernel.
<a href="#">CSCwf00276</a>	Packets with L2TP headers cause device to crash.
<a href="#">CSCwd05362</a>	Performance issue on device.
<a href="#">CSCwe85301</a>	Crypto PKI-CRL-IO_0 process crash when PKI trustpoint is being deleted.
<a href="#">CSCwh42119</a>	UCode crash when ZBFW is configured on inside interfaces.
<a href="#">CSCwf71557</a>	IPv4 connectivity over PPP not restored after reload.
<a href="#">CSCwh01738</a>	Unexpected reload when using rsh/rcmd.
<a href="#">CSCwf59929</a>	CTS CORE process crash after configuring role based ACL.
<a href="#">CSCwh35397</a>	Intermittent one way audio on RTP to SRTP calls with SSRC and seq num changes.
<a href="#">CSCwh20577</a>	Crashed by TRACK Client thread at access invalid memory location.
<a href="#">CSCwe21703</a>	DMI for RESTCONF/NETCONF enters degraded state due to discriminator configured.
<a href="#">CSCvz20285</a>	Image info not updated in packages.conf when upgrading in autonomous mode.
<a href="#">CSCwf60120</a>	Static NAT entry gets deleted from running config; but remains in startup config.
<a href="#">CSCwf26494</a>	BDI + NTP configuration puts DMI process in degraded mode.
<a href="#">CSCwh25168</a>	<b>CPLD upgrade failed</b> error message logged during ROMmon upgrade.

Caveat ID Number	Description
CSCvz38859	GD:Cu/Fiber SFP port Te0/0/2 down, PHY UP but MAC down (intermittent and after multiple iterations).
CSCwf80191	Flowspec on device won't revoke.
CSCwd38626	Repeating SYS-2-PAK_SUBBLOCK_BADSIZE: 4 -Process= &lt;interrupt level&gt;.
CSCwb55514	Unexpected reboot of the ESP seen after enabling <b>platform qos port-channel-aggregate</b> .
CSCwh26209	Router crashed with no ucode due to possible dataplane memory corruption in NAT client.
CSCwh45579	Unexpected reload on device UCode core @I2_dst_output_goto_output_feature_ext_path.
CSCwa52627	Incorrect Tx/Rx optical power values reported for QSFP transceivers.
CSCwe25815	Crash due to DTL push/pop on wait loop.
CSCwd02329	Router crash observed after add delay protection - macsec_macsec_next_pn_ret_msg_message_handler.
CSCwf51206	EVPN: BUM traffic is not flooded to bridge domain interface.
CSCwf47789	dot3StatsDuplexStatus gives unknown for tengig and gig interfaces.
CSCvz68277	%IOSXE_EPA-3-SPA_PORT_NUM_FAILURE: Failure in getting SPA port number.
CSCwf25735	Device QoS more than four remark with set-cos not work.
CSCwf48967	Failure to upgrade FPGA version to standby RP module.
CSCwf97285	Router switched to Software TCAM with enough HW TCAM space.
CSCwf99947	Crash when modifying tunnel after running <b>show crypto</b> commands.
CSCwf00276	Packets with L2TP headers cause device to crash.
CSCwh42119	UCode crash when ZBFW is configured on inside interfaces.
CSCwd34941	NAT configuration with no-alias option is not preserved after reload.
CSCwe24491	Static NAT with HSRP stops working after removing/adding standby.
CSCwd94495	SSM On-Prem responds with message <b>completed</b> to poll_id requests without ACK data.

## Resolved Bugs in Cisco IOS XE Bengaluru 17.6.6

Caveat ID Number	Description
CSCwe09745	Memory leak in PUBD when continuously trying to connect to remote peer.

Caveat ID Number	Description
<a href="#">CSCwd63063</a>	Standby BGP session receives incorrect routes from Active.
<a href="#">CSCwe19084</a>	NAT: Traffic is not translated to the same global address though PAP is configured.
<a href="#">CSCwd90168</a>	Unexpected reload after running <b>show voice dsp</b> command while an ISDN call disconnects.
<a href="#">CSCwe60059</a>	Crash when using dial-peer groups with STCAPP.
<a href="#">CSCwe24210</a>	SNMP MIB does not show correct firmware version for device LTE module.
<a href="#">CSCwe09805</a>	OID for SNMP monitoring of DSP resources are not working as expected.
<a href="#">CSCwb81159</a>	L2RIB thread crash when updating the MAC-IP.
<a href="#">CSCwe36122</a>	ISIS crash when performing TI-LFA calculation.
<a href="#">CSCwf03193</a>	Device crash with crashinfo files were generated with Segmentation fault, Process IPSec key engine.
<a href="#">CSCwf59173</a>	Segmentation fault at IPv6 BGP backup route notification.
<a href="#">CSCwe10905</a>	vBond tracker.
<a href="#">CSCwd88554</a>	Filesystem Leak on Standby Switch of device SVL Setup.
<a href="#">CSCwe20008</a>	[Device LTE] SNMP MIB OID changing its last index.
<a href="#">CSCwf00769</a>	L2RIB Thread crash after removing EVPN member from bridge domain.
<a href="#">CSCwf39552</a>	Segmentation fault by process mDNS on device.
<a href="#">CSCwf83301</a>	Device displays incorrect values for Call Quality statistics (RTT/MOS).
<a href="#">CSCwe72462</a>	Username/Password under voice register pool gets deleted post CME reload.
<a href="#">CSCwe25006</a>	An unexpected removal of the underlay S,G entry resulting ~20s disruption in the multicast flow SDA.
<a href="#">CSCwe21042</a>	NBAR DP traceback - "Failed to process non-graph batch message: wrong batch id" is logged.
<a href="#">CSCwf47796</a>	NHRP cache entries flood matching a /32 default route.
<a href="#">CSCwe32862</a>	Router IOS-XE crash while executing AES crypto functions.
<a href="#">CSCwf09758</a>	Watchdog crash while importing a large CRL file into switch.
<a href="#">CSCwf67564</a>	Device observes Memory Leak at process SSS Manager.
<a href="#">CSCvy87339</a>	Telemetry subscription fails to connect to grpc receiver when multiple XPATH changes are made to it.
<a href="#">CSCwe41946</a>	DTMF is failing through IOS MTP during call on-hold.

Caveat ID Number	Description
<a href="#">CSCvq81894</a>	Check Nexthop reachability before installing route for a prefix.
<a href="#">CSCwe52796</a>	Intermittent one way audio issue after hold and resume. SRTP to RTP.
<a href="#">CSCvz12193</a>	SNMP Walk: Authentication failure, with MD5 SNMPv3 user.
<a href="#">CSCwd09685</a>	Memory leak found @nfra/green/cep/src/cep.c.
<a href="#">CSCwe64213</a>	[Autorp]: LSPVif removal on OIF for RP discovery group 224.0.1.40 with timing related trigger.
<a href="#">CSCwf47563</a>	Device is crashing after importing the trustpoint with rsakeypair.
<a href="#">CSCwe12194</a>	Auto-Update Cycle incorrectly deletes certificates.
<a href="#">CSCwe33793</a>	Memory allocation failure with extended antireplay enabled.
<a href="#">CSCwd59423</a>	Unexpected Reload on device caused by WNCD process after removing a VLAN from a VLAN-GROUP.
<a href="#">CSCwc03176</a>	Device crashes when applying a service-policy to a newly created tunnel.
<a href="#">CSCwa96399</a>	Configuring <b>entity-information</b> xpath filter causes syslogs to print, does not return data.
<a href="#">CSCwh04884</a>	VC Down due to control-word negotiation.
<a href="#">CSCwc24044</a>	IOS XE device may experience an unexpected reset with high volume of multicast.
<a href="#">CSCwb47153</a>	Keyman process crash.
<a href="#">CSCwb59052</a>	Observe traceback message when BVM client do Inter-xTR roaming.
<a href="#">CSCwd73783</a>	Observed qfp-ucode-wlc crash.
<a href="#">CSCwfl4135</a>	SIPREC recording fails in transfer scenario when certian options are enabled in configuration.
<a href="#">CSCwf56463</a>	IOS process crash during VRRP hash table lookup.
<a href="#">CSCwf44649</a>	LISP failed to recreate the more specific away table entries after less specific entries toggled.
<a href="#">CSCwe23150</a>	CUBE memory leak sdp_copy_all_attrs sdp_parse_attribute sdp_add_new_attr.
<a href="#">CSCwf48808</a>	FlexVPN: stale client routes stuck in RIB on FlexServer.
<a href="#">CSCwf39490</a>	MCID (Malicious Call Identification) gets broken due to Custom prefix setting under STCAPP FAC.
<a href="#">CSCwa92418</a>	hide cisco-smart-*.yang from device by adding tailf:hidden full annotations.
<a href="#">CSCwd99921</a>	IOS XE software crash while validating certification trust.

Caveat ID Number	Description
<a href="#">CSCvy14316</a>	MPLS VPN traffic dropped due FDB OOM with cause FIAError under scale flow number (<1M).
<a href="#">CSCwe69783</a>	Device can lose its config during a triggered resync process if lines are in an off-hook state.
<a href="#">CSCwe56033</a>	Not triggering any alarms when RPM of a fan is 0.
<a href="#">CSCwf08019</a>	TACACS+ authentication stops working after changing AES encryption key on the WLC.
<a href="#">CSCwe36743</a>	Segmentation Fault - Crash - SSH - When Changing AAA Group Configs.
<a href="#">CSCwe41234</a>	Device VMWI race condition causes no ringing for analog phones.
<a href="#">CSCwf55830</a>	No Dial Tone on analog phones due to DSP going into Power Denial state.
<a href="#">CSCwe97579</a>	Spoke-spoke cache refresh not working correctly in case of multiple cache entries for same next hop.
<a href="#">CSCwf41082</a>	MallocLite emory Leak observed in HTTP CORE allocator.
<a href="#">CSCwh11858</a>	Switch running IOS-XE crashes when removing FQDN ACL.
<a href="#">CSCwe89823</a>	Router Crashes Due to CPUHOG When Walking ciscoFlashMIB @snmp_platform_get_flash_file_info.
<a href="#">CSCwf29859</a>	Logging in get-config processing affecting the template push fail.
<a href="#">CSCwd28734</a>	Device memory leak in pubd causes switch reload.
<a href="#">CSCwf27815</a>	DSP resource can not be release after end the call.
<a href="#">CSCuq20562</a>	ISDN Memory Leak when PRI link flaps, crashes router.
<a href="#">CSCwf01986</a>	Radius attribute 31 not being sent on device for CTS Pac provisioning.
<a href="#">CSCwf03292</a>	I/O middle pool leaking when VOIP trace is enabled.
<a href="#">CSCwe66318</a>	NAT entries expire on standby router.
<a href="#">CSCwh05407</a>	Gateway disconnecting incoming calls when FPI Correlator is not released after disconnect on PRI Leg.
<a href="#">CSCwe39011</a>	GARP on port up/up status from router is not received by remote peer device.
<a href="#">CSCwf14589</a>	IOS-XE switch may experience a segmentation fault with L2VPN EVPN when clearing duplicate MAC.
<a href="#">CSCwe70237</a>	CUBE reloads due to a segmentation fault in CCSIP_SPI_CONTROL process.
<a href="#">CSCwd12330</a>	Invalid TCP checksum in SYN flag packets passing through router.
<a href="#">CSCwf24164</a>	NetFlow stops working when flow monitor reaches cache limit in device.

Caveat ID Number	Description
<a href="#">CSCwd49177</a>	ISG: L2-connected subscriber: IPv6 prefix delegation is not reachable when packet are switched.
<a href="#">CSCwf08698</a>	Device crashes unexpectedly due to a fault in the 'TLSCLIENT_PROCESS'.
<a href="#">CSCwe22838</a>	ARP is not completing on interface having CISCO-OPLINK SFP.
<a href="#">CSCwd81240</a>	CPU utilization from the Linux kernel is at 100% due to btelnet.
<a href="#">CSCwa20942</a>	Seeing traceback in device after test_add_delete_modify_multiple_geo_filer_rules .
<a href="#">CSCwe80684</a>	QFP ucode crash when clearing MACs under BD in EVPN scenario.
<a href="#">CSCwe53849</a>	Observed crash in CPP, UCode & FMAN while upgrading with crypto module present.
<a href="#">CSCwe22353</a>	IpFormatErr drops on device when bridge-domain/EVC MAC learning limit is exhausted.
<a href="#">CSCwc03478</a>	vTCP does not support L2 correctly.
<a href="#">CSCwd81813</a>	startup-config not parsed correctly after upgrading.
<a href="#">CSCwd93401</a>	AppNav-XE: Policy-map edit on cluster with multiple service context fails to program TCAM.
<a href="#">CSCwf45769</a>	Ingress and Egress Bytes counters can suddenly increase and are not accurate for Sub-Interfaces.
<a href="#">CSCwe18124</a>	MACsec remains marked as SECURED, but randomly the traffic stops working.
<a href="#">CSCwd76648</a>	Port-channel DPI Load-Balancing not utilizing all the member-links.
<a href="#">CSCvr90635</a>	Output of <b>show dmvpn detail</b> is not matching the output of <b>show nhrp group</b> .
<a href="#">CSCwe34808</a>	FMAN FP leak due to the punt-policer command.

### Open Bugs in Cisco IOS XE Bengaluru 17.6.6

Caveat ID Number	Description
<a href="#">CSCwe37016</a>	The output rate on port channel does not match with the total physical interface output rate.
<a href="#">CSCwh14083</a>	High CPU due to MPLS MIB poll.
<a href="#">CSCwd16559</a>	ISG FFR: ARP request to reroute nexthop IP is not triggered if ARP entry not in ARP table.
<a href="#">CSCwf99647</a>	SRTP cipher failure for RTCP packets when AEAD_AES_256_GCM Cipher is used for call.
<a href="#">CSCwh21376</a>	Unable to disable the call-home feature on devices.



Caveat ID Number	Description
<a href="#">CSCwb51779</a>	Cisco IOS XE software privilege escalation vulnerability.
<a href="#">CSCwe93070</a>	Tracebacks seen when configuring VRF with 32 characters or more.
<a href="#">CSCwf80400</a>	IOS XE router may experience unexpected reset while executing <b>show utd engine standard statistics</b> .
<a href="#">CSCwd46688</a>	Unable to apply the service policy on tunnel interface.
<a href="#">CSCwf55243</a>	Device is crashing while adding a trustpoint to the router.
<a href="#">CSCwe29301</a>	AOM objects (FMAN_OBJ_ACL_REF) might be missing intermittently after MMA flapping.
<a href="#">CSCwe90119</a>	Device-tracking database entry stuck on UNKNOWN state with temporal mac address.
<a href="#">CSCwh15021</a>	QFP crash when configuring S2S VPN (IKEv2/IPSEC) with Azure vWAN/HUB.
<a href="#">CSCwf55145</a>	SFP transceiver DOM not working after some time, however interface forwards the traffic as expected.
<a href="#">CSCvu85539</a>	Unable to delete wrong interface name.
<a href="#">CSCwd97212</a>	UNIX-EXT-SIGNAL: Segmentation fault(11), Process = IOSXE-RP punt service process.
<a href="#">CSCwe14885</a>	VPN is established although the peer is using a revoked certificate for authentication.
<a href="#">CSCwc67429</a>	CTS PI changes for adding new binding source priority for LISP sourced local host bindings.
<a href="#">CSCwh45169</a>	Unexpected reboot while displaying information from cleared SSS session.
<a href="#">CSCwb99084</a>	OMP routes carrying prepended AS_PATH incorrectly imported into BGP at remote site.
<a href="#">CSCwh49644</a>	CSDL Compliance failure : Use of 3DES by IPSec is denied.
<a href="#">CSCwe91898</a>	Environmental syslog is not appearing when power cord is disconnected from the redundant PS.
<a href="#">CSCwb89958</a>	Unified Policy HSL not sending properly NBAR application information.
<a href="#">CSCvz68895</a>	The device crashed after adding trustpoint
<a href="#">CSCvz32960</a>	%IOSXE-3-PLATFORM: R0/0: /usr/sbin/pkg_to_tree: Failed to parse the key record 0. (28).
<a href="#">CSCwf95535</a>	Intf/System xml files are not generated on device.
<a href="#">CSCwf99947</a>	Crash when modifying tunnel after running <b>show crypto</b> commands.
<a href="#">CSCwd16419</a>	Device unexpected reload generates PUBD core.

Caveat ID Number	Description
<a href="#">CSCwd97077</a>	Device leaking memory in MallocLite because of telemetry subscription to collect FNF cache.
<a href="#">CSCwf78735</a>	Device uses the NIM-1T/4T card for interconnection, and NAT+ GRE over ipsec cannot be applied.
<a href="#">CSCvy94747</a>	GRACEFUL-RELOAD: Wrong state: 1 to receive chasfs event.
<a href="#">CSCwh12093</a>	SOS/ROC Feature on NIM.
<a href="#">CSCwh30377</a>	Device data plane crash in Umbrella/OpenDNS processing due to incorrect UDP length.
<a href="#">CSCwf34171</a>	<b>configure replace</b> command fails due to the license udi PID XXX SN:XXXX line on IOS-XE devices.
<a href="#">CSCwh45579</a>	Unexpected reload on device UCode core @l2_dst_output_goto_output_feature_ext_path.
<a href="#">CSCvz82148</a>	%CRYPTO_SL_TP_LEVELS-6-VAR_NEW_VALUE message is observed in each write config with same crypto value.
<a href="#">CSCwf80191</a>	Flowspec on device won't revoke.
<a href="#">CSCwh00963</a>	Unable to migrate from ADSL to VDSL without reboot on device.
<a href="#">CSCwf41084</a>	Extranet multicast code improvements for better handling of data structure.
<a href="#">CSCwc87565</a>	Unexpected reload due to a watchdog on the kernel.
<a href="#">CSCwf00276</a>	Packets with L2TP headers cause device to crash.
<a href="#">CSCwd05362</a>	Performance issue on device.
<a href="#">CSCwe85301</a>	Crypto PKI-CRL-IO_0 process crash when PKI trustpoint is being deleted.
<a href="#">CSCwh42119</a>	UCode crash when ZBFW is configured on inside interfaces.
<a href="#">CSCwf71557</a>	IPv4 connectivity over PPP not restored after reload.
<a href="#">CSCwh01738</a>	Unexpected reload when using rsh/rcmd.
<a href="#">CSCwf59929</a>	CTS CORE process crash after configuring role based ACL.
<a href="#">CSCwh35397</a>	Intermittent one way audio on RTP to SRTP calls with SSRC and seq num changes.
<a href="#">CSCwh20577</a>	Crashed by TRACK Client thread at access invalid memory location.
<a href="#">CSCwe21703</a>	DMI for RESTCONF/NETCONF enters degraded state due to discriminator configured.
<a href="#">CSCvz20285</a>	Image info not updated in packages.conf when upgrading in autonomous mode.
<a href="#">CSCwf60120</a>	Static NAT entry gets deleted from running config; but remains in startup config.
<a href="#">CSCwf26494</a>	BDI + NTP configuration puts DMI process in degraded mode.

Caveat ID Number	Description
<a href="#">CSCwh25168</a>	<b>CPLD upgrade failed</b> error message logged during ROMmon upgrade.
<a href="#">CSCvz38859</a>	GD:Cu/Fiber SFP port Te0/0/2 down, PHY UP but MAC down (intermittent and after multiple iterations).
<a href="#">CSCwf80191</a>	Flowspec on device won't revoke.
<a href="#">CSCwd38626</a>	Repeating SYS-2-PAK_SUBBLOCK_BADSIZE: 4 -Process= &lt;interrupt level&gt;.
<a href="#">CSCwb55514</a>	Unexpected reboot of the ESP seen after enabling <b>platform qos port-channel-aggregate</b> .
<a href="#">CSCwh26209</a>	Router crashed with no ucode due to possible dataplane memory corruption in NAT client.
<a href="#">CSCwh45579</a>	Unexpected reload on device UCode core @l2_dst_output_goto_output_feature_ext_path.
<a href="#">CSCwa52627</a>	Incorrect Tx/Rx optical power values reported for QSFP transceivers.
<a href="#">CSCwe25815</a>	Crash due to DTL push/pop on wait loop.
<a href="#">CSCwd02329</a>	Router crash observed after add delay protection - macsec_macsec_next_pn_ret_msg_message_handler.
<a href="#">CSCwf51206</a>	EVPN: BUM traffic is not flooded to bridge domain interface.
<a href="#">CSCwf47789</a>	dot3StatsDuplexStatus gives unknown for tengig and gig interfaces.
<a href="#">CSCvz68277</a>	%IOSXE_EPA-3-SPA_PORT_NUM_FAILURE: Failure in getting SPA port number.
<a href="#">CSCwf25735</a>	Device QoS more than four remark with set-cos not work.
<a href="#">CSCwf48967</a>	Failure to upgrade FPGA version to standby RP module.
<a href="#">CSCwf97285</a>	Router switched to Software TCAM with enough HW TCAM space.
<a href="#">CSCwf99947</a>	Crash when modifying tunnel after running <b>show crypto</b> commands.
<a href="#">CSCwf00276</a>	Packets with L2TP headers cause device to crash.
<a href="#">CSCwh42119</a>	UCode crash when ZBFW is configured on inside interfaces.
<a href="#">CSCwd34941</a>	NAT configuration with no-alias option is not preserved after reload.
<a href="#">CSCwe24491</a>	Static NAT with HSRP stops working after removing/adding standby.
<a href="#">CSCwd94495</a>	SSM On-Prem responds with message <b>completed</b> to poll_id requests without ACK data.

## Resolved Bugs in Cisco IOS XE 17.6.5a

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

Bug ID	Description
<a href="#">CSCwh87343</a>	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: <a href="#">cisco-sa-iosxe-webui-privesc-j22SaA4z</a>

## Open Bugs in Cisco IOS XE 17.6.5a

Caveat ID Number	Description
<a href="#">CSCwd90168</a>	Unexpected reload after running <b>show voice dsp</b> command while an ISDN call disconnects.
<a href="#">CSCwc03478</a>	VTCP does not support L2 correctly.
<a href="#">CSCwa52627</a>	Incorrect Tx/Rx optical power values reported for QSFP transceivers.
<a href="#">CSCwd89338</a>	Clear ISG existing lite-session upon reception of DHCP packet for same client.
<a href="#">CSCwd71458</a>	Outgoing number of bytes decrease in router interface.
<a href="#">CSCvr90635</a>	Output of <b>show dmvpn detail</b> is not matching the output of <b>show nhrp group</b> .
<a href="#">CSCwd34941</a>	NAT configuration with no-alias option is not preserved after reload.
<a href="#">CSCvq81894</a>	Check nexthop reachability before installing route for a prefix.
<a href="#">CSCwb99084</a>	OMP routes carrying prepended AS_PATH incorrectly imported into BGP at remote site.
<a href="#">CSCwb89958</a>	Unified Policy HSL not sending properly NBAR application information.
<a href="#">CSCwd59722</a>	Unexpected reboot due to IOSXE-WATCHDOG: Process = Crypto IKMP.
<a href="#">CSCwd97077</a>	Device leaking memory in MallocLite because of <b>show platform software flow</b> .
<a href="#">CSCwd81240</a>	CPU utilization from the Linux kernel is at 100% due to btelnet.
<a href="#">CSCwc56033</a>	Not triggering any alarms when RPM of a fan is 0.
<a href="#">CSCwa96399</a>	Configuring <b>entity-information</b> xpath filter causes syslogs to print, does not return data.
<a href="#">CSCwd93401</a>	AppNav-XE: Policy-map edit on cluster with multiple service context fails to program TCAM.
<a href="#">CSCwd81813</a>	startup-config not parsed correctly after upgrade.
<a href="#">CSCwd82460</a>	QFP ucode crash due to invalid RLB descriptor.
<a href="#">CSCwd88715</a>	ucode crash during CVLA routines trying to merge a free block.
<a href="#">CSCwb55514</a>	Crash seen after enabling <b>platform qos port-channel-aggregate</b> .
<a href="#">CSCwd76648</a>	Port-channel DPI Load-Balancing not utilizing all the member-links.

Caveat ID Number	Description
<a href="#">CSCwd49177</a>	ISG: L2-connected subscriber: IPv6 prefix delegation is not reachable when packet are switched.

### Resolved Bugs in Cisco IOS XE 17.6.5

Bug ID	Description
<a href="#">CSCvz93612</a>	%HW_FLOWDB-3-HW_FLOWDB_DBLDEL_FEATOBJ: FlowDB featobj cannot be deleted twice.
<a href="#">CSCvy60839</a>	CSDL Compliance: Add CLI to disable CSDL compliance.
<a href="#">CSCwc82140</a>	QFP crash when ZBFW configuration features <b>log dropped-packets</b> configuration.
<a href="#">CSCwc99823</a>	fman crash seen in SGACL@ fman_sgacl_calloc.
<a href="#">CSCwc78021</a>	Standby WLC crash @ fman_acl_remove_default_ace.
<a href="#">CSCvz92994</a>	Lack of MAC address in inform event message.
<a href="#">CSCwc89328</a>	Device might reboot when device supporting explicit IV joins network.
<a href="#">CSCwb52324</a>	Device unexpected reload due to QFP ucode crash.
<a href="#">CSCwb61073</a>	BQS Failure - QoS policy is missing in hardware for some Virtual-Access tunnels after session flaps.
<a href="#">CSCwd61255</a>	Data plane crash on device when making per-tunnel QoS configuration changes with scale.
<a href="#">CSCwd03869</a>	CEF DPI load-balancing causes out of order packets.
<a href="#">CSCwb04815</a>	NHRP process taking more CPU because of FlexVPN event trace.
<a href="#">CSCwc22314</a>	RTSP Traffic not being rewritten by NAT.
<a href="#">CSCwc76044</a>	Interface stats are not getting updated for port-channel.
<a href="#">CSCwc26669</a>	TLB miss for lock address during FNF cache lookup.
<a href="#">CSCwd30578</a>	Wired guest client stuck at IP_LEARN with DHCP packets not forwarded out of the foreign to anchor.
<a href="#">CSCwd71584</a>	DSPware 58.5.2 Release targeting v176_throttle.
<a href="#">CSCwd12748</a>	Ping fails on 10G/100G interface when autoneg is configured on it, in controller mode.
<a href="#">CSCwc00557</a>	Unexpected reload when running <b>show platform hardware qfp active feature qos queue output all</b> .
<a href="#">CSCwd56131</a>	LTE modem doesn't show GSM bands.
<a href="#">CSCwd38943</a>	GETVPN: KS reject registration from a public IP.

Bug ID	Description
<a href="#">CSCwc49154</a>	ISG DHCPD Timer crash due to subscriber session double free.
<a href="#">CSCwb73395</a>	Need CLI option to disable ALG.
<a href="#">CSCwd06372</a>	Unconditional excessive logging in eogre tunnel error handling case.
<a href="#">CSCwc54463</a>	LAN Module is down when high CPU noticed.
<a href="#">CSCwc72923</a>	ERROR info: Router configuration failed:interface Serial0/1/0:23 isdn switch-type primary-ntt.
<a href="#">CSCwc84967</a>	Intermittent double DTMF due to changing timestamp on a DTMF event.
<a href="#">CSCwd85580</a>	Unexpected reload after set <b>ospfv3 authentication null</b> command.
<a href="#">CSCwb08057</a>	ISG: Number of lite sessions conversion in progress counter not decrementing on failed account-logon.
<a href="#">CSCwd47123</a>	ISG uses identifier mac-address 0000.0000.0000 when DHCP LQ does not reply.
<a href="#">CSCwb32635</a>	File is incomplete when running admin-tech.
<a href="#">CSCwd72312</a>	GETVPN: Traffic drops seen on GM after rekey installing policies on image.
<a href="#">CSCvx00230</a>	IOS-XE device may show input/output rate values even if the interface is in admin down state.
<a href="#">CSCwd79089</a>	Device controller crash when sending full line rate of traffic with >5 Intel AX210 stations.

## Open Bugs in Cisco IOS XE 17.6.5

Bug ID	Description
<a href="#">CSCwd90168</a>	Unexpected reload after running <b>show voice dsp</b> command while an ISDN call disconnects.
<a href="#">CSCwc03478</a>	VTCP does not support L2 correctly.
<a href="#">CSCwa52627</a>	Incorrect Tx/Rx optical power values reported for QSFP transceivers.
<a href="#">CSCwd89338</a>	Clear ISG existing lite-session upon reception of DHCP packet for same client.
<a href="#">CSCwd71458</a>	Outgoing number of bytes decrease in router interface.
<a href="#">CSCvr90635</a>	Output of <b>show dmvpn detail</b> is not matching the output of <b>show nhrp group</b> .
<a href="#">CSCwd34941</a>	NAT configuration with no-alias option is not preserved after reload.
<a href="#">CSCvq81894</a>	Check nexthop reachability before installing route for a prefix.
<a href="#">CSCwb99084</a>	OMP routes carrying prepended AS_PATH incorrectly imported into BGP at remote site.

Bug ID	Description
<a href="#">CSCwb89958</a>	Unified Policy HSL not sending properly NBAR application information.
<a href="#">CSCwd59722</a>	Unexpected reboot due to IOSXE-WATCHDOG: Process = Crypto IKMP.
<a href="#">CSCwd97077</a>	Device leaking memory in MallocLite because of <b>show platform software flow</b> .
<a href="#">CSCwd81240</a>	CPU utilization from the Linux kernel is at 100% due to btelnet.
<a href="#">CSCwc56033</a>	Not triggering any alarms when RPM of a fan is 0.
<a href="#">CSCwa96399</a>	Configuring <b>entity-information</b> xpath filter causes syslogs to print, does not return data.
<a href="#">CSCwd93401</a>	AppNav-XE: Policy-map edit on cluster with multiple service context fails to program TCAM.
<a href="#">CSCwd81813</a>	startup-config not parsed correctly after upgrade.
<a href="#">CSCwd82460</a>	QFP ucode crash due to invalid RLB descriptor.
<a href="#">CSCwd88715</a>	ucode crash during CVLA routines trying to merge a free block.
<a href="#">CSCwb55514</a>	Crash seen after enabling <b>platform qos port-channel-aggregate</b> .
<a href="#">CSCwd76648</a>	Port-channel DPI Load-Balancing not utilizing all the member-links.
<a href="#">CSCwd49177</a>	ISG: L2-connected subscriber: IPv6 prefix delegation is not reachable when packet are switched.

#### Resolved Bugs in Cisco IOS XE 17.6.4

Bug ID	Description
<a href="#">CSCwb03893</a>	When MACSEC dot1q-in-clear 1 is enabled on interfaces there is traffic drop.
<a href="#">CSCwa52627</a>	Incorrect Tx/Rx optical power values reported for QSFP transceivers.
<a href="#">CSCwb44275</a>	Simulated flows with PPPoE with NAT DIA result in crash consistently.
<a href="#">CSCwb26560</a>	Linecard crashed on doing issu-mdr-force issu.
<a href="#">CSCwa68540</a>	FTP data traffic broken when UTD IPS enabled in both service VPN.
<a href="#">CSCvx00230</a>	Device may show input/output rate values even if the interface is in admin down state.
<a href="#">CSCwb95559</a>	Packet sanity failed for resolution reply on spoke due to missing SMEF capability.
<a href="#">CSCvz93712</a>	VFR is enabled by feature NAT but there is no NAT configured on the interface.
<a href="#">CSCwa84919</a>	"Revocation-check crl none" does not failover to NONE DNAC-CA.
<a href="#">CSCvz63684</a>	Alpha: EWC HA pair experiencing IOS tracebacks, followed by KEYMAN crash.
<a href="#">CSCwb25137</a>	[XE NAT] Source address translation for multicast traffic fails with route-map.

Bug ID	Description
<a href="#">CSCwb02142</a>	Traceback: fman_fp_image core after clearing packet-trace conditions.
<a href="#">CSCwb32059</a>	Cellular interface tracker down but NAT route persists in the service VPN routing table.
<a href="#">CSCvz98547</a>	Device should not show warning message during reload.
<a href="#">CSCwc06967</a>	IOS PKI client uses incorrect search filter for CRL retrieval using LDAPv3.
<a href="#">CSCwc37320</a>	RP switchover causes linecard NFS mount failure resulting in memory leak.
<a href="#">CSCwb05743</a>	Crash seen with umbrella config during soak run.
<a href="#">CSCvz83016</a>	BFD tunnel uptime not showing correct values post upgrade.
<a href="#">CSCwb43605</a>	OMPd crash during RIB-out attribute aspath/community processing.
<a href="#">CSCwc13013</a>	IPSec key engine process holding memory continuously and not freeing up.
<a href="#">CSCwb90470</a>	Device crashed with last reload reason critical process cxdp fault.
<a href="#">CSCwb73511</a>	Device is not able to bring up SIG tunnels after reboot.
<a href="#">CSCwb91729</a>	Fix mishandling of policy sequence programming failures and notify with syslog/notification.
<a href="#">CSCwa67886</a>	UDP based DNS resolution doesn't work with IS-IS EMCP.
<a href="#">CSCwb85046</a>	Device reloads when group-range is configured under an interface Group-Async.
<a href="#">CSCwc39881</a>	Device generated from hardware cEdge contains "/" in Common Name.
<a href="#">CSCvz23982</a>	IOS sending UP Event for the sub interface which is in down state.
<a href="#">CSCvx93283</a>	Service Chain is not created when tracking is disabled.
<a href="#">CSCvx18302</a>	[SIT] Speed Test to Internet failing on device.
<a href="#">CSCvz99832</a>	Device per class BFD - echo response pkts.
<a href="#">CSCwb08636</a>	IPSEC-3-HMAC_ERROR: IPSec SA receives HMAC error seen for TLOCExt setup after upgrade.
<a href="#">CSCvx74917</a>	DNS Packets are not redirected to configured custom DNS after umbrella template edit.
<a href="#">CSCwa72273</a>	ZBFW dropping return packets from tunnel post upgrade.
<a href="#">CSCwa64955</a>	Device loses control connections after installing new enterprise hardware.
<a href="#">CSCwa92137</a>	Device is changing ICMP ID in ICMP echo replies intermittently.
<a href="#">CSCwa49721</a>	Device with firewall configured incorrectly dropping return packets when routing between VRFs.



Bug ID	Description
<a href="#">CSCwa81471</a>	AOM pending objects with loopbacks binded to tloc-extended interfaces.
<a href="#">CSCwb49857</a>	Memory leaks on keyman process when key is not found.
<a href="#">CSCwb76866</a>	CSDL failure: Use of MD5 by IPSEC key engine is denied.
<a href="#">CSCwb16723</a>	Traceroute not working on device with NAT.
<a href="#">CSCwb55683</a>	Large number of IPSec tunnel flapping occurs when underlay is restored.
<a href="#">CSCwa80826</a>	IOS-XE: Devices running crypto ipsec policy installation fails.
<a href="#">CSCwb83376</a>	Device endpoint-tracker cannot be configured on a 100G interface.
<a href="#">CSCwc13304</a>	Per-tunnel QoS counters and shapers not working for some bfd tunnel with stale 'nh_overlay' objects.
<a href="#">CSCwa67398</a>	NAT translations do not work for FTP traffic.
<a href="#">CSCwb78173</a>	CSDL failure: IPSec QM Use of DES by encrypt proc is denied.
<a href="#">CSCwb71658</a>	[SIT] Traceback seen on device after enabling ipsec_pwk and reboot.
<a href="#">CSCwb76170</a>	IPsec SIG auto tunnels are not coming up.
<a href="#">CSCwb41907</a>	CPP uCode crash due to ipc congestion from dp to cp.
<a href="#">CSCwb74917</a>	Device incorrectly drops ip fragments due to reassembly timeout.
<a href="#">CSCwc25854</a>	ucode crash due to SIGABRT from bnxt_start_xmit.
<a href="#">CSCvy54048</a>	CPP unexpected reboot while freeing CVLA chunk.
<a href="#">CSCwa30857</a>	Internet speed test with ;oopback binding mode doesn't work with implicit ACL drop for return traffic.
<a href="#">CSCwb14020</a>	Serial interface stuck in "line protocol is down" state after it went down and it is recovered.
<a href="#">CSCwa98545</a>	Checks of route leaks creates memory corruption.
<a href="#">CSCwb46649</a>	NAT translation don't show (or use) correct timeout value for an established TCP session.
<a href="#">CSCwa08847</a>	ZBFW policy stops working after modifying the zone pair.
<a href="#">CSCwc33311</a>	Device crash @ imgr_n2_ipsec_sa_ctx_register.
<a href="#">CSCwa26599</a>	FN980 new signed Telit modem firmware FN980M_38.02.X92 upgrade failed
<a href="#">CSCwb12647</a>	Device crash for stuck threads in cpp on packet processing.
<a href="#">CSCwc04688</a>	Device crash observed after enabling NWPI trace with IPv6 traffic.

Bug ID	Description
<a href="#">CSCwb78290</a>	CISCO-SDWAN-BFD-MIB request gives results intermittently.
<a href="#">CSCwb76988</a>	IKEv2 fragmentation causes wrong message ID used for EAP authentication.
<a href="#">CSCvw50622</a>	NHRP network resolution not working with link-local ipv6 address.
<a href="#">CSCwb59736</a>	BFD tunnel is zero.
<a href="#">CSCwa57873</a>	Incorrect reload reason - last reload reason: local soft for NETCONF initiated request.
<a href="#">CSCvz37340</a>	The [service timestamps log datetime msec localtime] command cannot be pushed via CLI add on template.
<a href="#">CSCwb99793</a>	CRL verification failure result 400 bad request with digicert.
<a href="#">CSCwa25256</a>	Installing new enterprise wan edge cert does not remove old cert causing device to use old cert.
<a href="#">CSCwb51595</a>	Missing IOS config (voice translation rule) on upgrade.
<a href="#">CSCwb40575</a>	After device upgrade, umbrella DNS config set to NONE in show umbrella config.
<a href="#">CSCwb18315</a>	Umbrella DNS security policy doesn't work with cloud on ramp with SIG tunnels.
<a href="#">CSCwb58468</a>	Sig Autotunnels:tunnel 409 response received.
<a href="#">CSCwc04289</a>	Inconsistency between path MTU discovery result and tunnel MTU.
<a href="#">CSCwb74339</a>	OTV ISIS authentication commands missing after reload.

## Open Bugs in Cisco IOS XE 17.6.4

Bug ID	Description
<a href="#">CSCwc18977</a>	Crash with "IPE_CPE_U14_CSR32_IPE_CPE_ERR_CPE_MISC_LEAF_INT_INT_CPE_MALGN_ADDR_ERR" error.
<a href="#">CSCwc03478</a>	vtcp does not support L2 correctly.
<a href="#">CSCwb62474</a>	Device may crash when doing speedtest with WAN flapping.
<a href="#">CSCwc23077</a>	Firewall drop seen stating "FirewallL4" seen on device.
<a href="#">CSCwb74821</a>	Yang-management process confd is not running, controller mode.
<a href="#">CSCwc37465</a>	Static NAT configuration in CLI with the no-alias keyword cannot be retrieved via NETCONF/YANG.
<a href="#">CSCvz92994</a>	Lack of MAC address in Inform Event message.
<a href="#">CSCwc52538</a>	Device flows are not distributed and load-balanced evenly and consistently.

Bug ID	Description
<a href="#">CSCwb61073</a>	BQS Failure - QoS policy is missing in hardware for some Virtual-Access tunnels after session flaps.
<a href="#">CSCwc55260</a>	Memory leak due to FTMD process.
<a href="#">CSCwb55514</a>	Crash seen after enabling "platform qos port-channel-aggregate".
<a href="#">CSCwb99084</a>	OMP routes carrying prepended AS_PATH incorrectly imported into BGP at remote site.
<a href="#">CSCwb89958</a>	Unified policy HSL not sending properly NBAR application information.
<a href="#">CSCwb90375</a>	Adding modem to AUX port results in having to toggle modem in out or reload the router.
<a href="#">CSCwc59598</a>	Device statistics collection causing service-side BFD to flap on every collection interval.
<a href="#">CSCwc50477</a>	Device crashed in ipv4_nat_create_out2in_session_entry.
<a href="#">CSCwb04815</a>	NHRP process taking more CPU with ip nhrp redirect configured.
<a href="#">CSCwc22314</a>	RTSP Traffic not being rewritten by NAT.
<a href="#">CSCwb83236</a>	Traceback QFP core after pushing data policy with IPv6 interface.
<a href="#">CSCwc67465</a>	Router can not be upgraded.
<a href="#">CSCwc26669</a>	TLB miss for lock address during FNF cache lookup.
<a href="#">CSCwc25291</a>	NIM-LTE-EA No Data - Requires subslot reload to recover.
<a href="#">CSCwc63563</a>	Unable to set specific speed and duplex values on SFP ports on routing platforms.
<a href="#">CSCvz89354</a>	Router running crashes due to CPUHOG when walking cisco flash MIB.
<a href="#">CSCwb73395</a>	Need CLI option to disable ALG.
<a href="#">CSCwc43973</a>	DLC is not completing after upgrading to smart licensing from CSL.
<a href="#">CSCvz28950</a>	DMVPN phase 2 connectivity issue between two spokes.
<a href="#">CSCwb27486</a>	New key for NBAR app and NBAR category without OGREF optimized.
<a href="#">CSCwc27208</a>	BFD sessions not coming UP because of ANTI-REPLAY-FAILURES.
<a href="#">CSCwb08057</a>	ISG: Number of lite sessions conversion in progress counter not decrementing on failed account-logon.
<a href="#">CSCwb68897</a>	"Total output drops" counter in "show interface" on Port-channel doesn't work properly.
<a href="#">CSCwc30050</a>	UTD: Exception in utd_logger.py due to missing extra-data in AMP alert.
<a href="#">CSCwa52627</a>	Incorrect Tx/Rx optical power values reported for QSFP transceivers.

Bug ID	Description
<a href="#">CSCwc20171</a>	Fragmented packets crashes while allocating memory.
<a href="#">CSCwc17032</a>	cpp_cp_svr crash when port-channel configured.
<a href="#">CSCvx00230</a>	Device may show input/output rate values even if the interface is in admin down state.
<a href="#">CSCwc52538</a>	Device flows are not distributed and load-balanced evenly and consistently.
<a href="#">CSCwc25291</a>	NIM-LTE-EA No Data - Requires subslot reload to recover.
<a href="#">CSCwc55260</a>	Memory leak due to FTMD process.
<a href="#">CSCwc63563</a>	Unable to set specific speed and duplex values on SFP ports on IOS-XE routing platforms.
<a href="#">CSCwb99084</a>	OMP routes carrying prepended AS_PATH incorrectly imported into BGP at remote site.
<a href="#">CSCwc30050</a>	UTD: Exception in utd_logger.py due to missing extra-data in AMP alert.
<a href="#">CSCwb89958</a>	Unified Policy HSL not sending properly NBAR application information.
<a href="#">CSCwb90375</a>	Adding modem to AUX port results in having to toggle modem in out or reload the router.
<a href="#">CSCwb62474</a>	Device may crash when doing speedtest with WAN flapping.
<a href="#">CSCwc50477</a>	Device crashed in ipv4_nat_create_out2in_session_entry.
<a href="#">CSCwc43973</a>	DLC is not completing after upgrading to smart licensing from CSL.
<a href="#">CSCwc23077</a>	Firewall drop seen stating "FirewallL4" seen on device.
<a href="#">CSCwc22314</a>	RTSP traffic not being rewritten by NAT.
<a href="#">CSCwb74821</a>	Yang-management process confd is not running, controller mode.
<a href="#">CSCwc67465</a>	Router can not be upgraded.
<a href="#">CSCwb83236</a>	Traceback QFP core after pushing data policy with IPv6 interface.
<a href="#">CSCwc59598</a>	vManage statistics collection causing service-side BFD to flap on every collection interval.
<a href="#">CSCvz92994</a>	Lack of MAC address in Inform Event message.
<a href="#">CSCwc27208</a>	BFD sessions not coming UP because of ANTI-REPLAY-FAILURES.
<a href="#">CSCwd36511</a>	Ping fail to VRRP virtual IP address.

## Resolved Bugs in Cisco IOS XE 17.6.3a

Bug ID	Description
<a href="#">CSCvz98446</a>	Device crashed when changing Debug Level.
<a href="#">CSCwa13553</a>	Device QFP core due to NAT scaling issue.
<a href="#">CSCvx40516</a>	17.5 ZBFW + NAT: Traffic flow In2Out scenario failed.
<a href="#">CSCvy73165</a>	10G interfaces supports multirate:Mismatch in autoneg/speed in SH run and SH SDWAN run.
<a href="#">CSCwa26509</a>	Shut/no shut of endpoint-tracker attached tunnel, doesn't create probe again.
<a href="#">CSCwa10915</a>	PFRv3: Elephant flow will trigger performance monitor exporting more than 50% byte loss.
<a href="#">CSCvw67366</a>	Punt keepalive crashed due to bqs related interrupt.
<a href="#">CSCvz73202</a>	TCAM parity error - QFP crash with a scale configuration.
<a href="#">CSCvz71436</a>	Call placing issue from SCCP phones.
<a href="#">CSCvy69846</a>	Guestshell:.py files stored under /home/guestshell are lost after reboot on 1ng device.
<a href="#">CSCvz86591</a>	VRF-aware static NAT with route-map and reversible not working.
<a href="#">CSCvz99404</a>	SdwanImplicitAclDrop seen on non-SDWAN interface after upgrade.
<a href="#">CSCwa01804</a>	Router ucode crash with PPE DTL transfer error during IP reassembly.
<a href="#">CSCvz67279</a>	SELINUX-5-Mismatch Log on device.
<a href="#">CSCvz62032</a>	Attach gateways failed in cloud express.
<a href="#">CSCvz59621</a>	MKA Session not coming up on EVC.
<a href="#">CSCvz87460</a>	VID&gt;V07 16.9.7 MD5 signature does not match failure while upgrading.
<a href="#">CSCwa19074</a>	Infinite output from command show sdwan tunnel sla
<a href="#">CSCwa80474</a>	IKEv2 Deprecated Ciphers denied by Crypto Engine CDSL - PSB Security Compliance - MD5, SHA1.
<a href="#">CSCwa76260</a>	IKEv2 Deprecated Ciphers denied by Crypto Engine CDSL - PSB Security Compliance - DES, 3DES, DH1/2/5.
<a href="#">CSCwa11150</a>	E1 configurations (under Serial interface) lost after reload.
<a href="#">CSCwa30988</a>	CoS preservation not working for the services EVPL and EPL tunnel.
<a href="#">CSCvz65545</a>	ISIS reports encode error when NSF cisco if configured for GRE tunnel number greater than 65535.
<a href="#">CSCvz41647</a>	Partial multicast drops are seen after a failover event in a site with two devices.

Bug ID	Description
<a href="#">CSCvz76277</a>	Hostname not allowed beginning with numbers.
<a href="#">CSCvz34668</a>	Static mapping for the hub lost on one of the spokes.
<a href="#">CSCvz84437</a>	8500L // Unexpected reload due IPV6 UDP fragment header in VxLAN.
<a href="#">CSCvx28426</a>	Router may crash due to Crypto IKMP process.
<a href="#">CSCwa18177</a>	Flapping bidirectional/unidirectional packet capture option with IPv4 filter for long time failed.

### Open Bugs in Cisco IOS XE 17.6.3a

Bug ID	Description
<a href="#">CSCvz93712</a>	VFR is enabled by feature NAT but there is no NAT configured on the interface.
<a href="#">CSCwa39336</a>	Cannot transfer files.
<a href="#">CSCwb02142</a>	Traceback: fman_fp_image core after clearing packet-trace conditions.
<a href="#">CSCwb23871</a>	2048 RSA keys are lost after reload.
<a href="#">CSCvz98547</a>	Device platforms should not show warning message during reload.
<a href="#">CSCwb20089</a>	Device ESP crashes after enable platform debug for Cloud onRamp for SaaS.
<a href="#">CSCwb00533</a>	Device traffic is getting dropped/blackholed due to OCE_ADJ_DROP reason.
<a href="#">CSCvz05814</a>	[Chrysler]: Cwand issue observed ..potential crash.
<a href="#">CSCwb25913</a>	(Rework): After configuring match input-interface on class-map, router goes into a reboot loop.
<a href="#">CSCwa72273</a>	ZBFW dropping return packets from Zscaler tunnel post cedge upgrade.
<a href="#">CSCvz91913</a>	Bay 2 startup config of 40Gbps not applied on reload.
<a href="#">CSCwa68471</a>	Traceback: CPP ucode core generated after HSRP priority change.
<a href="#">CSCwa74499</a>	ZBFW seeing the SIP ALG incorrectly dropping traffic and resetting connection.
<a href="#">CSCwa49721</a>	SDWan HUB with firewall configured incorrectly dropping return packets when routing between VRFs.
<a href="#">CSCwa51582</a>	IP device-tracking not functional with voice VLAN configured.
<a href="#">CSCwa81471</a>	AOM pending objects with loopbacks binded to tloc-extended interfaces.
<a href="#">CSCwb21195</a>	Device sees Anti-Replay drops when sequence number is beyond 32 bit.
<a href="#">CSCwa97171</a>	PRP frames not transparent transmitted over L2TPv3 or EoMPLS tunnel.
<a href="#">CSCwb08186</a>	E1 R2 - dnis-digits cli not working.

Bug ID	Description
<a href="#">CSCwa98714</a>	FMFP-3-OBJ_DWNLD_TO_DP_FAILED and tracebacks are seen following traffic drop.
<a href="#">CSCwa67101</a>	Netflow exporter statistics not increasing on MFR interface with frame-relay fragmentation.
<a href="#">CSCwa08378</a>	Day0 ZTP ignores crypto configuration before licensing.
<a href="#">CSCvz51752</a>	SGACL policy doesn't get sync with standby post active RP crash & standby comes up.
<a href="#">CSCwa84448</a>	Intersite cloudsec enabled packets with &lt;60 byte across device getting dropped when PTP is enabled.
<a href="#">CSCwa11349</a>	Incorrect topology on TLOC extension causing high QFP.
<a href="#">CSCwb20222</a>	Upgrade device from 17.3.4a to 17.6.2 is failed.
<a href="#">CSCvy54048</a>	CPP unexpected reboot while freeing CVLA chunk.
<a href="#">CSCwa98545</a>	Checks of route leaks creates memory corruption.
<a href="#">CSCvz08674</a>	Device rebooted 2 time with CPP 0 failure stuck thread.
<a href="#">CSCwa76875</a>	After configuring match input-interface on class-map, router goes into a reboot loop.
<a href="#">CSCwa08847</a>	ZBFW policy stops working after modifying the zone pair.
<a href="#">CSCwa26599</a>	FN980 new signed Telit modem firmware FN980M_38.02.X92 upgrade failed.
<a href="#">CSCwa29964</a>	SCEP fails if AAAA DNS reply is received and source interface has no IPv6 address.
<a href="#">CSCwa52627</a>	Incorrect Tx/Rx optical power values reported for QSFP transceivers.
<a href="#">CSCwb32635</a>	Vdaemon file is incomplete when running admin-tech.
<a href="#">CSCwa67851</a>	Router traceback and reload when different encapsulation used on xconnect interfaces.
<a href="#">CSCvz95158</a>	IPSec Led doesn't lit even though module is correctly installed.
<a href="#">CSCwb18315</a>	Umbrella DNS security policy doesn't work with Cloud onRamp with SIG tunnels.
<a href="#">CSCvx00230</a>	IOS-XE device may show input/output rate values even if the interface is in admin down state.

### Resolved Bugs in Cisco IOS XE 17.6.2

Bug ID	Description
<a href="#">CSCvz30670</a>	Qos issue on IPv6 Virtual access (tunnel ipsec) interface ASR1k
<a href="#">CSCti88451</a>	Syslog message for SIP Trunk unregistration / registration

Bug ID	Description
<a href="#">CSCvh31741</a>	IOS Device may unexpectedly reboot when displaying BGP neighbors from AF being deleted
<a href="#">CSCvt49729</a>	IPv6 PD lost after RP failover under the sh subscr sess output
<a href="#">CSCvt95787</a>	Unhide "bandwidth" interface command on cedge cli
<a href="#">CSCvw13682</a>	L3 connected lite session not coming up , stuck in data-plane(qfp)
<a href="#">CSCvx61611</a>	Disruption of IPC communication between the FMAN-FP and FED processes due to lack of ACKs from FED.
<a href="#">CSCvx99833</a>	[EVPN L2TRM] Default SMET route should accept only group/source length zero & wildcard value
<a href="#">CSCvy03887</a>	SCP process leading to crash
<a href="#">CSCvy06671</a>	Wrong source ip address is shown in https access log
<a href="#">CSCvy18995</a>	[EVPN BGP] IMET route without PMSI tunnel attribute is accepted by Leaf VTEP
<a href="#">CSCvy23400</a>	MC-LAG feature cannot preserve administratively shut down sub-interfaces
<a href="#">CSCvy27721</a>	IOS-XE Router may experience unexpected reboot with X25 RBP
<a href="#">CSCvy29677</a>	Invalid Free Block Memory Corruption Caused by DHCP is Leading to IOSd Crash
<a href="#">CSCvy31008</a>	OSPF process may not install an external prefix (with fwaddr) in RIB
<a href="#">CSCvy39259</a>	Memory Corruption in standby node of B2B HA setup when running Mifid Media Proxy Recording Calls
<a href="#">CSCvy44951</a>	ESP Unexpected Reboot on Broadband Intelligent Services Gateway During Session Clean-up
<a href="#">CSCvy46402</a>	CUBE-979 Wrong crypto suite selection for re-invite during SRTP-SRTP dialpeer based recording case.
<a href="#">CSCvy54607</a>	Iosd crash at ospf-1 router process while applying config from bootflash
<a href="#">CSCvy56660</a>	mlacp backbone interface defined in netconf as Container instead of list entry
<a href="#">CSCvy58348</a>	Bulk-Sync Failure (PRC) On applying a non-existent Policy map to interface via template
<a href="#">CSCvy67482</a>	SRTP failure leading to no audio in TDM-SIP call with 183 wSDP present
<a href="#">CSCvy67650</a>	Controller does not send TCP SYN or ACK for web redirect when banner size is greater than 200 char
<a href="#">CSCvy68568</a>	show telemetry internal diagnostics decode error
<a href="#">CSCvy69555</a>	unable to fetch eigrp prefix, nexthop, omptag, and route origin



Bug ID	Description
<a href="#">CSCvy69663</a>	Running certain commands from old web interface may cause device to crash
<a href="#">CSCvy72193</a>	ISG IPv6 session lose connection w/ "no ipv6 nd ra suppress" due to final RA sent for other session
<a href="#">CSCvy72210</a>	Cisco IOS XE crash after executing 'show flowspec ipv4' command
<a href="#">CSCvy78311</a>	CUBE FPI leak on DO-DO flow in ANAT m-line switch case with CUBE pref IPv6
<a href="#">CSCvy78544</a>	17.7:ASR1K:Traceback @be_isis_process_no_router on unconfiguring ISIS with Entropy Label feature.
<a href="#">CSCvy78992</a>	BGP Router process may crash after configuring maximum-paths eibgp
<a href="#">CSCvy83154</a>	MAG is not detecting the path UP after several reboots
<a href="#">CSCvy84153</a>	Crash is observed in the controller when the AP location name is greater than 32 character
<a href="#">CSCvy85559</a>	LISP DDT: Buffered Map Request leads to NMR delivery failure
<a href="#">CSCvy86265</a>	Memory leak in ospf on withdrawing SRMS prefix sid
<a href="#">CSCvy86580</a>	[EVPN BGP] Crash seen @bgp_evpn_print_pmsi ,bgp_show_one_pmsi ,bgp_show_network_detail
<a href="#">CSCvy87819</a>	Extra isis config lines getting added to interface BDI Config
<a href="#">CSCvy90726</a>	BGP Memory Leak after upgrading to 17.3.x due to Duplicate Attribute Entries
<a href="#">CSCvy91369</a>	IOS-XE : IPSLA ICMP-Jitter over L3VPN results incorrect jitter value.
<a href="#">CSCvy92696</a>	Cosmetic: 'Logging host' configuration inconsistent between sdwan and IOS configuration
<a href="#">CSCvy93771</a>	Webauth hosts fails to get login page due to increment of aaa_reply_pending_count, WA bkpressure
<a href="#">CSCvy93946</a>	Removal of SHA-1 HMAC Impacting ability to SSH
<a href="#">CSCvy99942</a>	Netconf: Logging to syslog stops working in certain scenarios
<a href="#">CSCvz00900</a>	No Ringback to External Callers When Call Reaches Desk Phone JIRA CMESRST-328
<a href="#">CSCvz01295</a>	Edge Device performance issue
<a href="#">CSCvz01883</a>	DHCP Lease not renewed properly after expiry
<a href="#">CSCvz03677</a>	router crashes when changing BGP AS Number
<a href="#">CSCvz04388</a>	RSP3:pubd process crashed during ISSU from 17.6.1 to 17.3_throttle
<a href="#">CSCvz06288</a>	PI Infra changes for CSCvy74957 CPU generated FNF traffic does not adhere to standard RFC 4594

Bug ID	Description
<a href="#">CSCvz08303</a>	Controller reloads unexpectedly in dbm process when DBAL batch stops executing
<a href="#">CSCvz09498</a>	'show isis teapp' with scale doesn't display the entire list
<a href="#">CSCvz12010</a>	CUBE switches over to fax passthrough when "a=silenceSupp:off - - -" received in 200 OK.
<a href="#">CSCvz12596</a>	Memory leak in emulated database of OSPF and VRF.
<a href="#">CSCvz14745</a>	Memory leak seen when using DNS with IP SLA
<a href="#">CSCvz21844</a>	When Polling MIB 1.3.6.1.4.1.9.9.764 CUBE status shows wrong information
<a href="#">CSCvz24067</a>	On-Prem ZTP: control connections are formed. But after sometime, vManage reset the configuration.
<a href="#">CSCvz24880</a>	CUBE responds with new transaction refresher (UA) within the refresh message for fax passthru call
<a href="#">CSCvz26193</a>	IOS-XE switch may experience unexpected reboot while executing MAB commands
<a href="#">CSCvz27413</a>	CUBE takes lot of time to send 486 to the other call-leg when media stats-disconnect is enabled
<a href="#">CSCvz28986</a>	SNMP poll of DHCP Stats not available on IOS-XE 17.03.03
<a href="#">CSCvz30670</a>	Qos issue on IPv6 Virtual access (tunnel ipsec) interface ASR1k
<a href="#">CSCvz33145</a>	SDA - on Anywhere Border RPF for external RP incorrectly pointing to LISP after BGP route is back
<a href="#">CSCvz33428</a>	STATIC IP configured on SVI is lost when changing from DHCP if SVI flaps at the same time
<a href="#">CSCvz35288</a>	Ti-LFA backup path is not available for some protected Adj-SIDs in multi-area OSPF
<a href="#">CSCvz37619</a>	DSPware 58.5.1 Release targeting v176_throttle to 17.6.2
<a href="#">CSCvz41766</a>	VG450 Crashes Repeatedly in IOSd due to HTSP
<a href="#">CSCvz45020</a>	%SIP-1-LICENSING: SIP service is Up. License report acknowledged.
<a href="#">CSCvz45256</a>	Inbound fax T38 switchover on MGCP GW sending an m line of audio instead of image
<a href="#">CSCvz51558</a>	udp-jitter incorrect RTT calculation when using BDI interfaces
<a href="#">CSCvz60451</a>	Memory leak is observed in C9800-CL due to native telemetry
<a href="#">CSCvz66346</a>	ASR920: New Bridge-Domain are not added dynamically to POCH when TEFP-encap from-bd is configured
<a href="#">CSCvx08118</a>	ASR1001-X: Bug to further address CSCvt08179 : QFP crash due to hardware interrupt

Bug ID	Description
<a href="#">CSCvy24936</a>	vBond connections continuously flapping on edge devices.
<a href="#">CSCvy37285</a>	SSH to Loopback not working
<a href="#">CSCvy44723</a>	control connection to the edge device doesnt come up with v6 and reverse proxy
<a href="#">CSCvy54606</a>	CVLA need to reserve at least 50M memory for low-end DRAM platform
<a href="#">CSCvy74799</a>	Ucode crash observed at tw_bad_timer_bucket () at ../../infra/tw_timer.c:918
<a href="#">CSCvy85281</a>	Crash triggered by "crypto gdoi ks rekey replace-now"
<a href="#">CSCvy89362</a>	QOS-3-INVALID_BQS_QUEUE_INFO: Drop policy given an invalid scheduling queue/wred 0/0 -Traceback
<a href="#">CSCvy89461</a>	Crash when getting cdspCardStatusEntry OID
<a href="#">CSCvy89785</a>	OSPFv3 adjacency won't come up after "ospfv3 authentication ipsec" is applied on Tunnel interface
<a href="#">CSCvy91411</a>	SD-WAN policy is not correctly programmed in cEdge
<a href="#">CSCvy94954</a>	LA LED turns green when just inserted SFP-10G-LR on ISR4k without cable connecting
<a href="#">CSCvy95586</a>	SCCP gateway auto configuration download results in an incomplete configuration.
<a href="#">CSCvy97578</a>	Need Active/Active ZBFW support for Inter-vrf TCP traffic
<a href="#">CSCvy97761</a>	IPV6 route is breaking control connection.
<a href="#">CSCvy98784</a>	AppQoE DP stats for active connections shows huge bogus value
<a href="#">CSCvy99344</a>	cEdge: Multicast UnconfiguredIpv4Fia drop when multicast interworks with service chain/NAT DIA
<a href="#">CSCvz03053</a>	OMP continues to redistribute BGP route with down bit set (SoO)
<a href="#">CSCvz03342</a>	Multicast boundary command on tunnel interface DMVPN network is sending ttl=1 packet
<a href="#">CSCvz04121</a>	"show sdwan tunnel statistics bfd" and "clear sdwan tunnel statistics" issues
<a href="#">CSCvz06952</a>	vSmart crash on ompd process
<a href="#">CSCvz07134</a>	Router does not boot on recent 16.X releases with large service policy applied on the interface.
<a href="#">CSCvz09078</a>	FireWall Policy Drops are seen when the OG/ACE's are reconfigured multiple times
<a href="#">CSCvz09330</a>	Bootstrap aaa config issues due to default aaa config
<a href="#">CSCvz18867</a>	IP NAT source static does not work for TCP traffic from OUT to IN

Bug ID	Description
<a href="#">CSCvz23024</a>	17.6.1_auto:SNMP failure on bfdSessionsListSystemIp
<a href="#">CSCvz24267</a>	Static NAT entry is injecting a route to Null0
<a href="#">CSCvz25619</a>	FNF: Reload due to a memory allocation failure in cEdge
<a href="#">CSCvz26211</a>	flow monitor statistics missing when reloading with configuration
<a href="#">CSCvz30465</a>	MT: Template push with thousand eye feature failed for ISR4461 after PnP workflow
<a href="#">CSCvz34290</a>	no ip nbar resources flow max-session does not restore default platform session limits
<a href="#">CSCvz40788</a>	SDWAN tunnels are not coming up in Multilink Frame relay sub-interface
<a href="#">CSCvz47421</a>	VLAN IP config missing on bootup due to missing startup configs
<a href="#">CSCvz47982</a>	Flow-Control Goes down when configuring manual speed and remove the auto negotiation
<a href="#">CSCvz53819</a>	ZBFW : ARStandby drops seen on New Active during RG switchover
<a href="#">CSCvz55789</a>	Data-policy direction-all with empty action is causing to ignore app-route-policy
<a href="#">CSCvz56966</a>	Zscaler SIG tunnels not coming up after reboot due to HTTP/RESP/CODE 400
<a href="#">CSCvz60101</a>	Failure to start (on RP2) iox app-hosting application
<a href="#">CSCvz62602</a>	Extranet local switch crash when mdata is enabled.
<a href="#">CSCvz70734</a>	cEdge crash with sdwan overlay multicast: "CPU Usage due to Memory Pressure exceeds threshold"
<a href="#">CSCvz73780</a>	memory leak with fman_cc process when SM-X-G4M2X module installed

### Open Bugs in Cisco IOS XE 17.6.2

Bug ID	Description
<a href="#">CSCuv05226</a>	ASR920 : VRF is not deleted after replacing default config
<a href="#">CSCvv82322</a>	ASR1001-X and ASR9K: Link issue when using macsec
<a href="#">CSCvw67366</a>	ASR1002-X: Punt keepalive crashed due to bqs related interrupt
<a href="#">CSCvw70446</a>	17.4 ZBFW:Crash pointing to fw_base_flow_create () seen on ASR1K
<a href="#">CSCvz11362</a>	ASR fails to install rekey causing traffic drop
<a href="#">CSCvz31901</a>	ASR1K: Cisco makefile changes to build the PHY API SW 4.67.05
<a href="#">CSCvz33747</a>	High CPU caused by "IOSD ipc" task on ASR 1002-HX.
<a href="#">CSCvz54262</a>	ASR1001X crash at CFT after scaling up to 4M flows when internet link up from 2Gbps to 10Gbps

Bug ID	Description
<a href="#">CSCvz55696</a>	ASR1K - IOSXE BGP Graceful Restart inducing extensive packets loss after nexthop node is offline
<a href="#">CSCvz62601</a>	ASR1000-MIP100 / IOS XE 17.3.2 / high CPU on LC process mcpcclc-ms and link flaps
<a href="#">CSCvz67279</a>	SELINUX-5-Mismatch Log on ASR1002HX and 8500 Platforms
<a href="#">CSCvz74322</a>	"Shutdown" command visible in running config after reload of ASR 1002-HX
<a href="#">CSCvz87460</a>	ASR 1000-RP2 VID>V07 16.9.7 MD5 signature does not match failure while upgrading to 17.3(1r) rommon
<a href="#">CSCvu62879</a>	Crash@bgp_perform_general_scan
<a href="#">CSCvy20617</a>	CUBE license status goes to ""NOT IN USE" after SLR Authorization
<a href="#">CSCvy22343</a>	Crash after reapplying BGP/ attempt to initialize an initialized wavl tree
<a href="#">CSCvy57681</a>	Unexpected reboot of IOS-XE Router in BQS QM @ cpp_qm_proc_rt_commit
<a href="#">CSCvy97741</a>	qfp_ucose_c8kv crash at making a blind transfer from an outside SIP service
<a href="#">CSCvy98400</a>	CUBE responds with new transaction refresher (UA) within the refresh message
<a href="#">CSCvz05377</a>	ACL not getting updated once pushed from ISE
<a href="#">CSCvz07465</a>	Too big Call-ID length in the SIP REGISTER
<a href="#">CSCvz19341</a>	SUBSCRIBE-NOTIFY Passthrough does not work as expected in CUBE registration proxy scenario
<a href="#">CSCvz20285</a>	SDWAN image info not updated in packages.conf when upgrading in autonomous mode
<a href="#">CSCvz21812</a>	QoS policy update with "random-detect dscp" configuration get rejected on device side
<a href="#">CSCvz23470</a>	Function: DNA-C/SWIM - NCSW10249: Distribution failed using protocol: HTTPS with FQDN
<a href="#">CSCvz26532</a>	No audio on Courtesy Call Back from CCE when using SRTP
<a href="#">CSCvz26852</a>	During netconf push vManage adding "\" for every pipe " " symbol
<a href="#">CSCvz26901</a>	When survivability script with header-passing enabled is invoked, the translation rule fails
<a href="#">CSCvz30202</a>	CUBE does not send REGISTER to registrar server after reloading it.
<a href="#">CSCvz35474</a>	Traceback: IOS core generated after failure of process CCSIP_SPI_CONTROL
<a href="#">CSCvz43262</a>	CUBE DTMF Interworking breaks during consulted call transfer

Bug ID	Description
<a href="#">CSCvz48118</a>	Radius probe account pushes unsupported Service-type [6] attribute
<a href="#">CSCvz55553</a>	BGP routes refreshing in the routing table after adding "bgp advertise-best-external"
<a href="#">CSCvz55696</a>	ASR1K - IOSXE BGP Graceful Restart inducing extensive packets loss after nexthop node is offline
<a href="#">CSCvz55812</a>	MLP cpp crash cause both FP cpp to lock and stuck in disconnecting
<a href="#">CSCvz57415</a>	128.0.0.0/2 is installed into CEF as unusable on a PETR after EID-Prefix is removed.
<a href="#">CSCvz57887</a>	CUBE is not sending audio for SIPREC call recording
<a href="#">CSCvz60420</a>	Peer voice hunt group does not track hops
<a href="#">CSCvz62589</a>	Crash when configuring NAT log flow-export v9 (HSL)
<a href="#">CSCvz64802</a>	WLC reloaded due to a memory corruption in wncd
<a href="#">CSCvz72871</a>	Multicast traffic received over DMVPN tunnel are dropped on RP and not forwarded downstream.
<a href="#">CSCvz74646</a>	CME fails to send notifications to all phones for shared line use during parallel calls
<a href="#">CSCvz76277</a>	Hostname not allowed beginning with numbers
<a href="#">CSCvz76649</a>	APs disjoin the WLC when a clients connects to a Secure LDAP SSID
<a href="#">CSCvz77313</a>	Catalyst Switch reload due to SFF8472
<a href="#">CSCvz81906</a>	Crash while running 'show running-config' command due to "ipv6 dhcp test relay reply add"
<a href="#">CSCvz84537</a>	Webauth external stuck in authenticating without taking ip address
<a href="#">CSCvz86218</a>	IOS 17.x / SCP copy command fails for large files > 2GB size due to "invalid argument"
<a href="#">CSCvz86580</a>	Unable to remove the BGP neighbor statement through vManage template.
<a href="#">CSCvz89713</a>	CEF should not notify LISP based on helpered UDP broadcast packets from remote hosts
<a href="#">CSCvv82985</a>	dhcpv6_relay:dhcp-client on branch not receive ipv6 address
<a href="#">CSCvx28426</a>	Router may crash due to Crypto IKMP process
<a href="#">CSCvy63924</a>	Telemetry: IOS-XE Controller crashes after using 'show telemetry ietf subscription all' command.
<a href="#">CSCvy69846</a>	Guestshell: .py files stored under /home/guestshell are lost after reboot on 1ng device
<a href="#">CSCvy72970</a>	Active ftp not working with UTD+HTX for security and Unified policy.
<a href="#">CSCvz28950</a>	DMVPN phase 2 connectivity issue between two spokes

Bug ID	Description
<a href="#">CSCvz37340</a>	The [service timestamps log datetime msec localtime] command cannot be pushed via CLI Addon template
<a href="#">CSCvz40459</a>	Ucode crash due to NAT proxy timeout
<a href="#">CSCvz54262</a>	ASR1001X crash at CFT after scaling up to 4M flows when internet link up from 2Gbps to 10Gbps
<a href="#">CSCvz58895</a>	IOS-XE unable to export elliptic curve key
<a href="#">CSCvz65545</a>	ISIS reports encode error when NSF cisco if configured for GRE tunnel number greater than 65535
<a href="#">CSCvz67279</a>	SELINUX-5-Mismatch Log on ASR1002HX and 8500 Platforms
<a href="#">CSCvz76277</a>	Hostname not allowed beginning with numbers
<a href="#">CSCvz77008</a>	SDWAN Router Crashed "Critical process qfp_ucose_csx fault on fp_0_0 (rc=139)"
<a href="#">CSCvz80197</a>	FTMD message error
<a href="#">CSCvz87460</a>	ASR 1000-RP2 VID>V07 16.9.7 MD5 signature does not match failure while upgrading to 17.3(1r) rommon

#### Resolved Bugs in Cisco IOS XE 17.6.1a

Bug ID	Description
<a href="#">CSCvo41609</a>	GETVPN: Clearing members on Key Server causing rekey processing failure on GMs
<a href="#">CSCvr91128</a>	NAT HA - stale tcp sessions in standby router
<a href="#">CSCvw21378</a>	ASR1001-X built-in Tengig interfaces' counters increasing continuously and port stay up/up w/o SFP
<a href="#">CSCvw91361</a>	Crash when issuing "show crypto isakmp peers config"
<a href="#">CSCvw98579</a>	BQS crash seen in 17.3 while bringing up 30k PPPOE sessions
<a href="#">CSCvx22349</a>	After reload or switchover, redundant ESP goes offline->online (transient issue)
<a href="#">CSCvx23159</a>	FW-4-ALERT_ON: (target:class)-():getting aggressive seen when no half open feature configed
<a href="#">CSCvx25217</a>	cannot remove NAT configuration from the template in a single operation if NAT translation is active
<a href="#">CSCvx26065</a>	1006-X: Box rebooted due to ucode crash, with 2M CFLOW and 8K BFD sessions
<a href="#">CSCvx32090</a>	Port channel configuration triggers traceback
<a href="#">CSCvx32670</a>	Wrong reload reason reflected after a power outage.

Bug ID	Description
CSCvx32807	False positive alarm: IOSXE_RP_ALARM-6-INFO: ASSERT CRITICAL Fan Tray Bay 1 Fan Tray Module Missing
CSCvx44834	ASR1K - ACE entry added after object-group is missing in hardware causing packets drops
CSCvx45788	cannot apply ciscosdwan.cfg due to vpg-log-server-acl ACL on VirtualPortGroup0 for logging
CSCvx53399	fman_fp_image crashed with ZBFW config change
CSCvx57615	ZBFW blocking ACK packets for applications using clouDEXpress SaaS set to use a Gateway with synsent
CSCvx64449	%CRYPTO-4-RECVD_PKT_MAC_ERR: decrypt: mac verify failed due to ip rtp header-compression iphc-format
CSCvx64640	Data plane VPLS traffic generating Control Word on all Label Switched Headers
CSCvx68767	PWK - Overlay tunnel goes down with overnight traffic (No Crash)
CSCvx69830	ASR1k: BQS crash seen at cpp_qm_event_proc_defer_cb
CSCvx72682	[DMM/SLM test issue] CFM crash when using physical port, DMM/SLM doesn't work on EVC
CSCvx75330	fman_rp memory leak in acl_config_bind_v4_acl_message function.
CSCvx77024	IPv6 DMVPN - NBMA address not getting preserved
CSCvx77203	[17.5] Router crashed when sending traffic through non-SDWAN interface with DIA NAT + debug enabled
CSCvx77674	A router may crash when processing an NHRP packet
CSCvx78215	An IOS XE device might crash at DoubleExceptionVector
CSCvx82406	Memory leaks in IOS_PRIV_OPER_DB
CSCvx83301	"insufficient resources" NHRP-ERROR while receiving small rate of NHRP Resolution Requests/second
CSCvx88061	Extended PAT not allowing more than 1k translations
CSCvx88246	Packets dropped due to firewall + data policy interop issue
CSCvx89710	SCEP: CA server fails to rollover CA certificate with error: "Storage not accessible"
CSCvx94323	NHRP messages tagged with incorrect MPLS labels - unable to establish shortcut
CSCvx97718	vtcp frees rx buffer when packet with expected next sequence arrives with no payload; phones reset
CSCvy00963	On vManage 20.4.1, traceroute on cEdge leads to outage at the site



Bug ID	Description
<a href="#">CSCvy01097</a>	Router may crash under ZBF configuration (cpp_cp_svr)
<a href="#">CSCvy03584</a>	cEdge fails to capture sdwan-related outputs to admin-tech
<a href="#">CSCvy09343</a>	CFM inject packet is not marked as high priority
<a href="#">CSCvy10159</a>	Software MTP should support encrypted TLS connection
<a href="#">CSCvy13261</a>	ASR1001-X is not tagging BGP prefixes with OMP tags
<a href="#">CSCvy13735</a>	BFD tunnels stuck in down state after port-hop
<a href="#">CSCvy17941</a>	High memory utilization observed due to NAT/ALG
<a href="#">CSCvy18691</a>	ASR1002HX-IPSECHW octeon ucode crashes when provisioned via SD-WAN
<a href="#">CSCvy20588</a>	CSDL failure when it should be allowing RSA keys with 1024 length.
<a href="#">CSCvy30209</a>	IOS-XE cpp ucode crash with fragmented packets
<a href="#">CSCvy32673</a>	GD/1hx-Interface doesn't come up when reboot/upgrade device with autoneg enabled on 10G SFP+ Port
<a href="#">CSCvy33007</a>	"Best of Worst" Fallback mode causes reachability issue when routes flap
<a href="#">CSCvy33818</a>	On MTT vManage system IP persists after invalidating and deleting the edge devices.
<a href="#">CSCvy34102</a>	CPP ucode crash with route-map and overload at ipv4_nat_rmap_walk_find.
<a href="#">CSCvy35853</a>	ASR1k- egress byte counter on MIP100 10GE interface is inaccurate
<a href="#">CSCvy50292</a>	Standby router crashes ZBFW on VASI interfaces with FTP or SIP TCP traffic
<a href="#">CSCvy52761</a>	adding multilink frame relay sub-interface to SDWAN fails; "Aborted: application error"
<a href="#">CSCvy54314</a>	Data-policy local-tloc with app-route is dropping packets when SLA is not met
<a href="#">CSCvy64468</a>	ASR1002-HX crashed after removing then applying the ZBF configuration.
<a href="#">CSCvy67720</a>	[FNF] Need to force DTL read after PLU lookup in fnf_build_do_ipv4_fast
<a href="#">CSCvy93830</a>	BFD tunnel uptime not showing correct values post upgrade to 17.6.01

### Open Bugs in Cisco IOS XE 17.6.1a

Bug ID	Description
<a href="#">CSCvx44834</a>	ASR1K - ACE entry added after object-group is missing in hardware causing packets drops
<a href="#">CSCvx95405</a>	Cellular interface lte Network Selection Mode switches to auto following a reload
<a href="#">CSCvy33818</a>	On MTT vManage system IP persists after invalidating and deleting the edge devices.

Bug ID	Description
<a href="#">CSCvy57681</a>	Crash in BQS QM @ cpp_qm_proc_rt_commit
<a href="#">CSCvy72970</a>	Active ftp not working with UTD+HTX for security and Unified policy.
<a href="#">CSCvy78501</a>	17.6: AAR not working properly as configured SLA classes are not shown under app-route stats
<a href="#">CSCvy86497</a>	BFD session flap/down while control connection with vManage is going down
<a href="#">CSCvy87507</a>	Router unexpectedly routes traffic with broadcast dst MAC
<a href="#">CSCvy90763</a>	PYON: Adjusting new text segment to address L2i rejections issues with SDWAN profiles
<a href="#">CSCvz06095</a>	ReassTimeout drops with NAT in Port-Channel.
<a href="#">CSCvz08674</a>	cedge rebooted 2 time with CPP 0 failure Stuck Thread
<a href="#">CSCvz08945</a>	low-bandwidth-link doesn't reduce number of BFD packets
<a href="#">CSCvz09078</a>	FireWall Policy Drops are seen when the OG/ACE's are reconfigured multiple times
<a href="#">CSCvz11362</a>	ASR fails to install rekey causing traffic drop
<a href="#">CSCvz24199</a>	cEdge: Transport interface IP is unexpectedly NATed to pool address in DIA scenarion
<a href="#">CSCvz25403</a>	NetApp: Issues with traffic does not get forwarded via TLOC extended interface
<a href="#">CSCvz28795</a>	SSL VPN fails to establish if 'match url' is configured under crypto ssl profile
<a href="#">CSCvz28950</a>	DMVPN phase 2 connectivity issue between two spokes
<a href="#">CSCvz31630</a>	Crash ASR 1k crash under "VTEMPLATE Background Mgr" process
<a href="#">CSCvz33108</a>	After uploading the serial file list to the vmanage, the edges lost Control Con. and BFD sessions
<a href="#">CSCvz34290</a>	no ip nbar resources flow max-session does not restore default platform session limits
<a href="#">CSCvz35990</a>	OSPFv3 IPsec encryption failure when IPv4 address-family not configured in VRF

## 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>



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**Note** After upgrading the ROMmon to version 17.3(1r), you cannot revert it to a version earlier than 17.3(1r) for the following platforms:

- ASR 1001-X
- ASR 1001-HX
- ASR 1002-HX

This restriction is only applicable for these platforms. If you have upgraded to ROMmon version 17.3(1r) on any other platform, reverting to an earlier version of ROMmon is permitted and does not cause any technical issues

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## Related Documentation

- [Release Notes for Previous Versions of ASR 1000 Series Aggregation Services Routers](#)
- [Hardware Guides for Cisco ASR 1000 Series Aggregation Services Routers](#)
- [Configuration Guides for ASR 1000 Series Aggregation Services Routers](#)
- [Command Reference Guides for ASR 1000 Series Aggregation Services Routers](#)
- [Product Landing Page for ASR 1000 Series Aggregation Services Routers](#)
- [Datasheet for ASR 1000 Series Aggregation Services Routers](#)
- [Upgrading Field Programmable Hardware Devices for Cisco ASR 1000 Series Routers](#)
- [Cisco ASR 1000 Series Aggregation Services Routers ROMmon Upgrade Guide](#)
- [Field Notices](#)
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