



# Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Dublin 17.10.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 Dublin 17.10.1a is the first release for Cisco ASR 1000 Series Aggregation Services Routers in the Cisco IOS XE Dublin 17.10.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 will not enable upgrade/downgrade using separate packages:

- ASR 1001-X
  - ASR 1001-HX
  - ASR1002-X
  - ASR 1002-HX
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Instead, use the **install add file bootflash:<file name> activate commit** command to upgrade using a single image that combines all the separate packages improves 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 17.6.1, 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 17.3.2, 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 Hardware Features

There are no new hardware features for this release.

## New and Changed Software Features

Table 1: New Software Features in Cisco ASR 1000 Series Release Cisco IOS XE 17.10.1a

Feature	Description
<a href="#">Layer 2 BGP VXLAN EVPN</a>	Border Gateway Protocol (BGP) Ethernet VPN (EVPN) Virtual Extensible LAN (VXLAN) is a campus and data center network solution for Cisco devices that run on Cisco IOS XE software. This feature allows Layer 2 segments to be supported across an IP core therefore allowing improved scalability with infrastructure. It also provides all the benefits of Layer 3 topologies.
<a href="#">New Filtering Options for show isis database command</a>	This enhancement includes new filtering options for the <b>show isis database</b> command to support increased scale, view information on neighbours or prefixes and display both router capability information and raw TLV encoding.
<a href="#">Segment Routing Absolute One-Way Link Loss Measurement for GRE-IPSec Tunnel</a>	This feature provides a mechanism for link loss measurement for point-to-point GRE-IPSec tunnel and identifies paths that meet specified loss criteria.
<a href="#">Stateful Network Address Translations using VRF with CGN</a>	This feature introduces support to enable stateful NAT64 translations with Carrier Grade NAT (CGN) enabled within Virtual routing and forwarding (VRF) instances in a network.
Support for YANG Operational Model in the GETVPN architecture	This feature enables the YANG operational model in the GETVPN architecture to <b>support the crypto gdoi</b> command which was previously enabled only for the CLI and SNMP models.
<b>Cisco Unified Border Element (CUBE) Features</b>	Additional YANG configuration models are included in this release to enable Unified SRST secure calling, applications for CUBE, and additional codecs for voice class codec lists.
<a href="#">YANG model enhancements for Unified SRST and CUBE</a>	

## Resolved and Open Bugs for Cisco IOS XE 17.10.x

### Resolved Bugs for Cisco IOS XE 17.10.1a

Bug ID	Description
<a href="#">CSCwd06372</a>	Rapid memory exhaustion due to excessive logging.
<a href="#">CSCwc78021</a>	Standby WLC crash @ fman_acl_remove_default_ace.

Bug ID	Description
<a href="#">CSCwd38626</a>	Repeating SYS-2-PAK_SUBBLOCK_BADSIZE: 4 -Process= "&lt;interrupt level&gt;".
<a href="#">CSCwb55514</a>	Crash seen after enabling <b>platform qos port-channel-aggregate</b> .
<a href="#">CSCwb35303</a>	X25 FRMR seen when switching from XOT to low speed serial.
<a href="#">CSCwc77981</a>	Device crashed - track the fman-fp's memory leak caused by cond-debug.
<a href="#">CSCwd03869</a>	CEF DPI load-balancing causes out of order packets.
<a href="#">CSCwc29735</a>	Improve debug for reload at crypto_dev_proxy_ipc_ipsec_sa crt_hndlr when scale exceed limit.
<a href="#">CSCwc06327</a>	PFP policy in SRTE, RIB resolution in FC bring down ipsec tunnel interface- stuck at linestate down.
<a href="#">CSCwc70511</a>	Router reloads unexpectedly during NHRP processing.
<a href="#">CSCwc26669</a>	TLB miss for lock address during FNF cache lookup.
<a href="#">CSCwd16664</a>	GetVPN long SA - GM re-registration after encrypting 2^32-1 of packets in one IPSEC SA.

### Open Bugs for Cisco IOS XE 17.10.1a

Bug ID	Description
<a href="#">CSCwd25107</a>	Interface VLAN1 placed in "shutdown" state when configured with <b>ip address pool</b> .
<a href="#">CSCwd23810</a>	IOS-XE: A high CPU utilization caused by NHRP.
<a href="#">CSCwd45402</a>	MSR Unicast-To-Multicast not working if DST and SRC are the same in Service Reflect configuration.
<a href="#">CSCwd59722</a>	Unexpected reboot due to IOSXE-WATCHDOG: Process = Crypto IKMP.
<a href="#">CSCwd30578</a>	Wired guest client stuck at IP_LEARN with DHCP packets not forwarded out of the foreign to anchor.
<a href="#">CSCwd61255</a>	Data Plane Crash on device when making QoS configuration changes.
<a href="#">CSCwd63984</a>	High Churn rate results in IPSEC failing triggering a crash.
<a href="#">CSCwd68111</a>	Device object group called in ZBFW gives error after upgrade.
<a href="#">CSCwc65697</a>	Device crashing and restarting during call flow with new image.
<a href="#">CSCwd53205</a>	IKEv2 The RRI routes are intermittently disappearing from a FlexVPN hub.
<a href="#">CSCwc99823</a>	FMAN crash seen in SGACL@ fman_sgac1_alloc.
<a href="#">CSCwa96399</a>	Configuring "entity-information" xpath filter causes syslogs to print, does not return data.

Bug ID	Description
<a href="#">CSCwd12828</a>	Segmentation fault crash in CCSIP_SPI_CONTROL process.
<a href="#">CSCwd74089</a>	CUBE call leak at FPI layer.
<a href="#">CSCwc66646</a>	Unexpected reload due to segmentation fault in the CCSIP_SPI_CONTROL process.
<a href="#">CSCwc23645</a>	When using SRTP with higher ciphers, CUBE is inserting distortion in voice.

## 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>.



**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.

## 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](#)
- [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](#)
- [Cisco Bulletins](#)

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### Cisco Bug Search Tool

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

## Documentation Feedback

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## Troubleshooting

For the most up-to-date, detailed troubleshooting information, see the Cisco TAC website at <https://www.cisco.com/en/US/support/index.html>.

Go to **Products by Category** and choose your product from the list, or enter the name of your product. Look under **Troubleshoot and Alerts** to find information for the issue that you are experiencing.

