Release Notes for Cisco ASR 920 Series Aggregation Services Router, Cisco IOS XE Bengaluru 17.4.x

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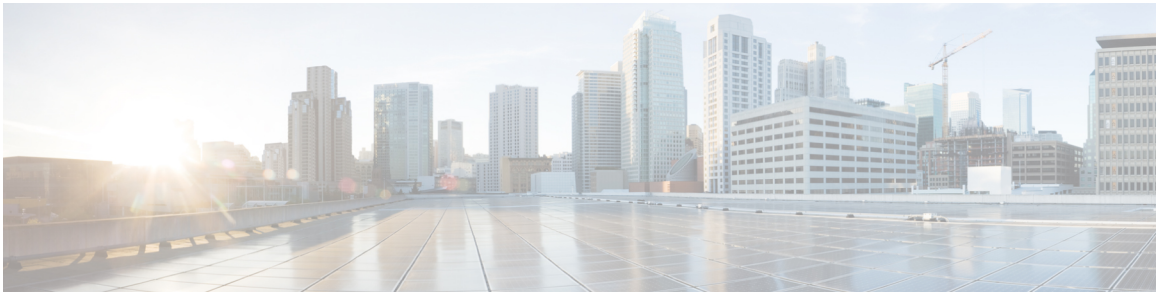

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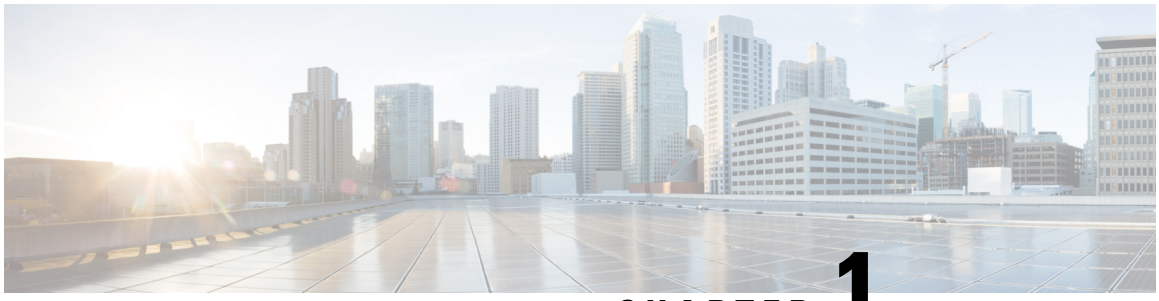

CHAPTER 1

Introduction

This release notes contain information about the Cisco ASR 920 Series Aggregation Services Routers, provides new and changed information for these routers, hardware support, limitations and restrictions, and caveats.

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This release notes provides information for these variants of the Cisco ASR 920 Series Routers:

- ASR-920-12CZ-A
- ASR-920-12CZ-D
- ASR-920-4SZ-A
- ASR-920-4SZ-D
- ASR-920-10SZ-PD
- ASR-920-24SZ-IM
- ASR-920-24SZ-M
- ASR-920-24TZ-M
- ASR-920-12SZ-IM
- ASR-920-12SZ-A
- ASR-920-12SZ-D
- ASR 920-8S4Z-PD

Starting with Cisco IOS XE Bengaluru Release 17.4.1, Cisco ASR-920-24SZ-IM, Cisco ASR-920-24SZ-M, Cisco ASR-920-24TZ-M, Cisco ASR 920-10SZ-PD, Cisco ASR-920-12CZ-A/D, and Cisco ASR-920-4SZ-A/D routers are auto upgraded to ROMMON version 15_6_44r_s.

Cisco ASR 920 Series Routers Overview

The Cisco ASR 920 Series Aggregation Services Routers provide a comprehensive and scalable set of Layer 2 and Layer 3 VPN services in a compact package. They are temperature-hardened, small form factor, with high throughput and low power consumption ideal for mobile backhaul, business services and residential voice, video, and data ("triple-play") applications.

Feature Navigator

Use the Cisco Feature Navigator to find information about feature, platform, and software image support. To access the Cisco Feature Navigator, go to http://www.cisco.com/go/cfn. An account on cisco.com is not required.

Feature Matrix

The feature matrix lists the features supported for each platform. For more information, see the Cisco ASR 920 Series Aggregation Services Routers Feature Compatibility Matrix.

The cumulative Feature Compatibility Release Matrix is available on Content Hub.

Software Licensing Overview

Starting with Cisco IOS XE Cupertino 17.7.1, PAK licenses are no longer available. When you purchase the Cisco IOS XE Cupertino 17.7.1 release or later, Smart Licensing is enabled by default. We recommend that you move to Smart Licensing before upgrading to Cisco IOS XE Cupertino 17.7.1 or a higher release, for a seamless experience.

If you are using Cisco IOS XE Bengaluru 17.6.1 or an earlier release version, Smart Licensing is not enabled by default. To enable Smart Licensing, see Software Activation Configuration Guide (Cisco IOS XE ASR 920 Routers).

The router offers the following base licenses:

- Metro Services
- Metro IP Services
- Advanced Metro IP access
    - SDM Video Template

Table 1: Cisco ASR 920 Software Licenses Feature Set

Metro Services	Metro IP Services	Metro Aggregation Services
—	Includes all features in Metro Services	Includes all features in Metro IP Services
QoS, with deep buffers and hierarchical QoS (HQOS)	IP routing (RIP, OSPF, EIGRP, BGP, IS-IS)	MPLS (LDP and VPN)
Layer 2: 802.1d, 802.1q	PIM (SM, DM, SSM), SSM mapping	MPLS TE and FRR
Ethernet Virtual Circuit (EVC)	BFD	MPLS OAM
Ethernet OAM (802.1ag, 802.3ah)	Multi-VRF CE (VRF lite) with service awareness (ARP, ping, SNMP, syslog, trace-route, FTP, TFTP)	MPLS-TP
Multiple Spanning Tree (MST) and Resilient Ethernet Protocol (REP)	IEEE 1588-2008 Ordinary Slave Clock and Transparent Clock	Pseudowire emulation (EoMPLS, CESoPSN, and SAToP)
Synchronous Ethernet	—	VPLS and HVPLS
IPv4 and IPv6 host connectivity	—	Pseudowire redundancy
—	—	MR-APS and mLACP

The router offers the following additional feature licenses:

- ATM
- IEEE 1588-2008 Boundary Clock/Master Clock
- OC-x Port License

Determining the Software Version

Use the following commands to verify your software version:

- Consolidated Package— **show version**

Table 2: ROMMON Version

PIDs	ROMMON
ASR-920-12SZ-A , ASR-920-12SZ-D	15.6(43r)S

PIDs	ROMMON
ASR-920-12SZ-IM	15.6(43r)S
ASR-920-12CZ-A, ASR-920-12CZ-D, ASR-920-4SZ-A, ASR-920-4SZ-D, ASR-920-10SZ-PD,ASR-920-24SZ-IM, ASR-920-24SZ-M, ASR-920-24TZ-M, ASR920-8S4Z-PD, and ASR-920-20SZ-M	15.6(44r)S

Supported HoFPGA and ROMMON Versions

The tables below list the HoFPGA and ROMMON version of the software releases.

Table 3: HoFPGA and ROMMON Versions for the Cisco ASR-920-12CZ-A, ASR-920-12CZ-D, ASR-920-4SZ-A, ASR-920-4SZ-D, ASR-920-10SZ-PD, and ASR 920-8S4Z-PD

Release	HoFPGA Version	ROMMON Version
Cisco IOS XE Gibraltar 16.12.1	0X00040043	15.6(32r)S
Csico IOS XE Gibraltar 16.12.2a	0x00040043 (BFD/default template) 0x00020009 (Netflow template)	15.6(32r)S
Cisco IOS XE Amsterdam 17.1.x	0X00040043 (BFD/default template) 0x00020009 (Netflow template)	15.6(32r)S
Cisco IOS XE Amsterdam 17.3.1	0X00020009	15.6(43r)S
Cisco IOS XE Amsterdam 17.3.2	0X00020009	15.6(43r)S
Cisco IOS XE Bengaluru 17.4.1	0X00040044 (BFD/default template)	15.6(44r)S
Cisco IOS XE Bengaluru 17.4.2	0X00040044 (BFD/default template)	15.6(44r)S

Table 4: HoFPGA and ROMMON Versions for the Cisco ASR-920-20SZ-M

Release	HoFPGA Version	ROMMON Version
Cisco IOS XE Gibraltar 16.12.1	0X0001000A	15.6(32r)S

Release	HoFPGA Version	ROMMON Version
Csico IOS XE Gibraltar 16.12.2a	0x0001000A (BFD/default template) 0x0001000A (Netflow template)	15.6(32r)S
Cisco IOS XE Amsterdam 17.1.x	0x0001000A (BFD/default template) 0x0001000A (Netflow template)	15.6(32r)S
Cisco IOS XE Amsterdam 17.3.1	0X0001000a	15.6(43r)S
Cisco IOS XE Amsterdam 17.3.2	0X0001000a	15.6(43r)S
Cisco IOS XE Bengaluru 17.4.1	0X0001000a	15.6(44r)S
Cisco IOS XE Bengaluru 17.4.2	0X0001000a	15.6(44r)S

Table 5: HoFPGA and ROMMON Versions for the Cisco ASR-920-24SZ-IM, ASR-920-24SZ-M, and ASR-920-24TZ-M

Release	HoFPGA Version	ROMMON Version
Cisco IOS XE Gibraltar 16.12.1	0X00030014	15.6(32r)S
Csico IOS XE Gibraltar 16.12.2a	0x00030014 (BFD/default template) 0x00030014 (Netflow template)	15.6(32r)S
Cisco IOS XE Amsterdam 17.1.x	0x00030014 (BFD/default template) 0x00030014 (Netflow template)	15.6(32r)S
Cisco IOS XE Amsterdam 17.3.1	0X00030014	15.6(43r)S
Cisco IOS XE Amsterdam 17.3.2	0X00030014	15.6(43r)S
Cisco IOS XE Bengaluru 17.4.1	0X00030016	15.6(44r)S
Cisco IOS XE Bengaluru 17.4.2	0X00030016	15.6(44r)S

Table 6: HoFPGA and ROMMON Versions for the Cisco ASR-920-12SZ-IM

Release	HoFPGA Version	ROMMON Version
Cisco IOSXE Gibraltar 16.12.1	0X0003001B	15.6(24r)S
Csico IOS XE Gibraltar 16.12.2a	0x0003001B (BFD/default template) 0x00020008 (Netflow template)	15.6(24r)S

Release	HoFPGA Version	ROMMON Version
Cisco IOS XE Amsterdam 17.1.x	0x0003001B (BFD/default template) 0x00020008 (Netflow template)	15.6(24r)S
Cisco IOS XE Amsterdam 17.3.1	0X0003001b	15.6(43r)S
Cisco IOS XE Amsterdam 17.3.2	0X0003001b	15.6(43r)S
Cisco IOS XE Bengaluru 17.4.1	0X0003001e	15.6(43r)S
Cisco IOS XE Bengaluru 17.4.2	0X0003001e	15.6(43r)S

Table 7: HoFPGA and ROMMON Versions for the Cisco ASR-920-12SZ-A and ASR-920-12SZ-D

Release	HoFPGA Version	ROMMON Version
Cisco IOS XE Gibraltar 16.12.1	0X00010039	15.6(29r)S
Csico IOS XE Gibraltar 16.12.2a	0x00010039 (BFD/default template) 0x10000007 (Netflow template)	15.6(29r)S
Cisco IOS XE Amsterdam 17.1.x	0x00010039 (BFD/default template) 0x10000007 (Netflow template)	15.6(29r)S
Cisco IOS XE Amsterdam 17.3.1	0X10000008	15.6(43r)S
Cisco IOS XE Amsterdam 17.3.2	0X10000008	15.6(43r)S
Cisco IOS XE Bengaluru 17.4.1	0X00010040 (BFD/default template)	15.6(43r)S
Cisco IOS XE Bengaluru 17.4.2	0X00010040 (BFD/default template)	15.6(43r)S

Table 8: IM FPGA Versions for the Cisco ASR-920-24SZ-IM

Release	Gigabit Ethernet Interface Module (Phase 1) FPGA	Gigabit Ethernet Interface Module (Phase2) FPGA	8 T1/E1	16 T1/E1	32 T1/E1
Cisco IOS XE Amsterdam 17.1.x	0.49	69.24	0.54	0.54	0.46
Cisco IOS XE Amsterdam 17.3.1	0.49	69.24	0.54	0.54	0.46

Release	Gigabit Ethernet Interface Module (Phase 1) FPGA	Gigabit Ethernet Interface Module (Phase2) FPGA	8 T1/E1	16 T1/E1	32 T1/E1
Cisco IOS XE Amsterdam 17.3.2	0.75	N/A	N/A	0.54	0.46
Cisco IOS XE Bengaluru 17.4.1	0.75	N/A	N/A	0.54	0.46
Cisco IOS XE Bengaluru 17.4.2	0.75	N/A	N/A	0.54	0.46

Table 9: IM FPGA Versions for the Cisco ASR-920-12SZ-IM

Release	Gigabit Ethernet Interface Module (Phase 1) FPGA	Gigabit Ethernet Interface Module (Phase2) FPGA	8 T1/E1	16 T1/E1	32 T1/E1
Cisco IOS XE Amsterdam 17.1.x	0.49	69.24	0.54	0.54	0.46
Cisco IOS XE Amsterdam 17.3.1	0.49	69.24	0.54	0.54	0.46
Cisco IOS XE Amsterdam 17.3.2	0.75	N/A	N/A	0.54	0.46
Cisco IOS XE Bengaluru 17.4.1	0.75	N/A	N/A	0.54	0.46
Cisco IOS XE Bengaluru 17.4.2	0.75	N/A	N/A	0.54	0.46

Limitations and Restrictions on the Cisco ASR 920 Series Routers

Note The error message "PLATFORM-1-NOSPACE: SD bootflash : no space alarm assert" may occur in the following scenarios:

- Any sector of SD Card gets corrupted
- Improper shut down of router
- power outage.

This issue is observed on platforms which use EXT2 file systems.

We recommend performing a reload of the router. As a result, above alarm will not be seen during the next reload due to FSCK(file systems check) execution.

However, If the error persists after a router reload, we recommend to format the bootflash or FSCK manually from IOS.

- The **default** *command-name* command is used to default the parameters under that interface. However, when speed is configured on the interface, the following error is displayed:

  ```
  Speed is configured. Remove speed configuration before enabling auto-negotiation
  ```

- Adding or deleting the Trunk Ethernet flow points (TEFPs) with scaled bridge-domain, without delay causes the Cisco ASR 920 Series router to crash.
- Virtual services should be deactivated and uninstalled before performing replace operations.
- The Cisco ASR920 Series Routers no longer support the controller and nid-controller commands for the Cisco ME1200 switch.
- The following interface modules (IMs) do not require the activation command for IM boot up, provided no other IM is activated in subslot 0/1 before.

  However, if an IM was activated in the system earlier, deactivate the previously-activated IM before inserting a new IM in system.

  - 16-Port T1/E1 Interface Module
  - 32-Port T1/E1 Interface Module
  - 8-Port T1/E1 Interface Module
  - 4-port OC3/STM-1 (OC-3) or 1-port OC12/STM-4 (OC-12) Interface Module
  - 14-Port Serial Interface Module
  - 6-Port E and M Interface Module
  - 4-Port C37.94 Interface Module

- RS422 works on ports from 0 to 7 only.

- The frame drops may occur for packets with packet size of less than 100 bytes, when there is a line rate of traffic over all 1G or 10G interfaces available in the system. This restriction is applicable only on RSP2 module and ASR 920 platform, and is not applicable for RSP3 module.
- MPLS VC label packet with time-to-live (TTL) value of 2 is dropped at egress MPLS PE device due to ASIC limitations. During PHP process, MPLS TTL value for the VC label is decremented by one with implicit-null. The VC label-related TTL value is set to 255 while imposing the VC label due to multiple VC switching scenarios.

  Use the **no mpls ip propagate-ttl** command as the Short Pipe mode for the required label.
- Interface naming is from right to left. For more information, see the Cisco ASR 920 SoftwareConfiguration Guide .
- Packet size greater than 1460 is not supported over IPsec Tunnel.
- Minimal traffic drop might be seen for a moment when higher rate traffic is sent through the IPsectunnels for the first time.
- One Ternary Content-Addressable Memory (TCAM) entry is utilized for Segment Routing Performance Measurement. This is required for the hardware timestamping to function.
- While performing an auto upgrade of ROMMON, only primary partition is upgraded. Use the **upgrade rom-mon filename** command to upgrade the secondary partition of the ROMMON. However, the router can be reloaded during the next planned reload to complete the secondary ROMMON upgrade.
- Some router models are not fully compliant with all IETF guidelines as exemplified by running the pyang tool with the lintflag. The errors and warnings exhibited by running the pyang tool with the lint flag are currently non-critical as they do not impact the semantic of the models or prevent the models from being used as part of the toolchains. A script is provided, **check-models.sh**, which runs pyang with lint validation enabled, but ignoring certain errors. This allows the developer to determine what issues may be present.

Documentation Updates

Rearrangement in the Configuration Guides

- The following are the modifications in the CEM guides.
  - Introduction of the Alarm Configuring and Monitoring Guide:

    This guide provides the following information:
    - Alarms supported for SONET and SDH, and their maintenance
    - Alarm profiling feature
    - Auto In-Service States for cards, ports, and transceivers

    For more information, see the Alarm Configuring and Monitoring Guide, Cisco IOS XE 17 (Cisco ASR 920 Series).
  - Rearrangement of Chapter and Topics in the Alarm Configuring and Monitoring Guide:
    - The Auto In-Service States Guide is now a chapter inside the Alarms Configuring and Monitoring Guide.

- Alarms at SONET Layers topic in the following CEM guides, is added to the Alarms Configuring and Monitoring Guide:
  - 1-Port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 port T1/E1 + 4 port T3/E3 CEM Interface Module Configuration Guide
- The Alarm History and Alarm Profiling chapters are removed from the below CEM Technology guides, and added into the Alarm Configuring and Monitoring Guide:
  - 1-Port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 port T1/E1 + 4 port T3/E3 CEM Interface Module Configuration Guide

- Configuring IEEE 802.3ad Link Bundling is now available in Etherchannel Configuration Guide, Cisco IOS XE 17 (Cisco ASR 920 Series).

Additional References

Product Information

- Cisco ASR 920 Series Aggregation Services Router Data Sheets

Hardware Installation Guides

- Cisco ASR 920 Series Aggregation Services Router Hardware Guides

Software Configuration Guides

- Cisco ASR 920 Series Aggregation Services Router Configuration Guides

Regulatory Compliance and Safety Information

- Regulatory Compliance and Safety Information for the Cisco ASR 920 Series Aggregation Services Routers

Field Notices and Bulletins

- Field Notices—We recommend that you view the field notices for this release to determine whether your software or hardware platforms are affected. You can find field notices at http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html.
- Bulletins—You can find bulletins at http://www.cisco.com/en/US/products/sw/iosswrel/ps5012/prod_literature.html.

MIB Support

To view supported MIB, go to http://tools.cisco.com/ITDIT/MIBS/MainServlet.

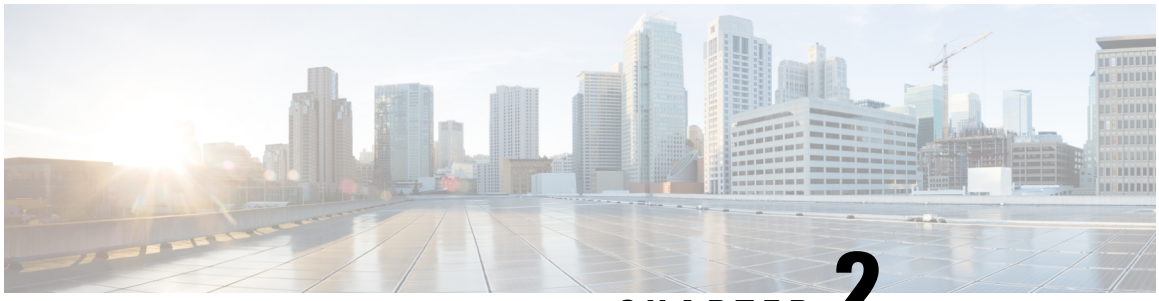
Accessibility Features in the Cisco ASR 920 Series Routers

For a list of accessibility features in Cisco ASR 920 Series Routers, see the Voluntary Product Accessibility Template (VPAT) on the Cisco website, or contact accessibility@cisco.com.

All product documents are accessible except for images, graphics, and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact accessibility@cisco.com.

End-of-Life and End-of-Sale Notices

For End-of-Life and End-of-Sale Notices for the Cisco ASR 920 Series Routers, see http://www.cisco.com/c/en/us/products/routers/asr-920-series-aggregation-services-router/eos-eol-notice-listing.html.



CHAPTER 2

What's New in Cisco IOS XE Bengaluru 17.4.x

This chapter describes the new hardware and software features supported on the Cisco ASR 920 Series routers in Cisco IOS XE Bengaluru 17.4.x.

For information on features supported for each release, see Feature Compatibility Matrix.

What's New in Hardware for Cisco IOS XE Bengaluru 17.4.2

There are no new hardware features in this release.

What's New in Software for Cisco IOS XE Bengaluru 17.4.2

There are no new software features in this release.

What's New in Hardware for Cisco IOS XE Bengaluru 17.4.x

There are no new hardware features in this release.

What's New in Software for Cisco IOS XE Bengaluru 17.4.x

Feature	Description
1 port OC-48/STM-16 or 4 port OC-12/OC-3 / STM-1/STM-4 + 12 port T1/E1 + 4 port T3/E3 CEM Interface Module	

Feature	Description
STS1E Framed SAToP Support on IMA3G	Support on clock recovery on STS-1e controller for framed SAToP on the following modes: • T3 • CT3 • VT-15
Carrier Ethernet	
Enabling the Bridge Domain Interface	This feature allows you to configure the **platform bdi enable-state up** global command.
IP Multicast: PIM	
Multicast SLA Measurment with MLDP	Display of aggregated egress multicast stats for BDI interfaces on Head node, which is part of the MLDP core is supported.
IP Routing: BFD	
BFD over G8032 and Multi EFP BDI	Scale numbers for BFD and hardware offload are enhanced for the Cisco ASR 900 RSP2 module.
IP SLAs	
Configurable User-Defined and EMIX Packet Size	This feature allows you to configure user-defined and Enterprise traffic (EMIX) packet sizes. Use the following commands to configure user-defined and EMIX packet sizes: • **packet-size user-defined** *packet size* • **packet-size emix sequence** *emix-sequence* [**u-value** *u-value value*]
SAT based support for configurable EMIX traffic pattern in FPGA	The support for EMIX packet size is enhanced. For EMIX traffic, packet sizes of 64, 128, 256, 512, 1024, 1280, 1518, Maximum Transmission Unit (MTU) and user-defined patterns are supported. These packet sizes are forwarded in ratio of 1:1:1:1:1.
EMIX Sequence Enhancement	This feature enables SAT based support for configurable EMIX traffic pattern in FPGA-based SAT.
Layer 2	
Enhanced Ethernet Data Plane Loopback	The Ethernet data plane loopback feature is enhanced to avoid control packets getting dropped. The enhancement supports internal shaper configuration, when terminal ELB session is activated or deactivated to rate the limit the ELB session traffic. The enhancement is applicable only on internal loopback.
MPLS Basic	

Feature	Description
Re-optimization with Tunnel Bandwidth Modification on Flex-LSP Protect Path	This feature supports Make Before Break (MBB) functionality and thus ensures there is no traffic loss when a MPLS Flex LSP tunnel runs on protect LSP (if working LSP goes down) and the tunnel bandwidth is modified. When the working LSP comes up, use the following command to manually switch from the working to protect LSP: **mpls traffic-eng switch tunnel** *tunnel-ID*
Segment Routing	
L2VPN over 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. Prior to this release, you could only steer the traffic using the SR policy for routing IPv4 traffic to a destination pseudowire (over IGP or BGP-LU).
PCE Initiated SR Policy with OSPF Autoroute Announce	This feature enables a steering mechanism in which IGPs automatically use the policy for destination's downstream of the policy end point.
Segment Routing Flexible Algorithm support for TI-LFA uLoop Avoidance, SID Leaking, and ODN with Auto-Steering	This feature allows you to compute Loop Free Alternate (LFA) paths, TI-LFA backup paths, and Microloop Avoidance paths for a particular Flexible Algorithm using the same constraints as the calculation of the primary paths for such Flexible Algorithms, for IS-IS. See Calculation of Flexible Algorithm Path. Inter-area leaking of Flexible Algorithm SIDs and prefixes and selectively filtering the paths that are installed to the MFI are also supported. See Flexible Algorithm Prefix-SID Advertisement and Installation of Forwarding Entries for Flexible Algorithm Paths.
Telemetry (Model-Based Telemetry and Event-Based Telemetry) Support for Performance Measurement	This feature enables Model-Based Telemetry (MDT) and Event-Based Telemetry (EDT) that allow the data to be directed to a configured receiver. This data can be used for analysis and troubleshooting purposes to maintain the health of the network. The **sr_5_label_push_enable** SDM template is mandatory for this feature to function.
Upgrading the Software on the Cisco ASR 920 Series Routers	
Secure SD Card Configuration	The features uses the following command to provide enhanced security to the routers: **platform secure-cfg** When you enable the command, the router does not boot if the SD card is replaced, swapped, or modified externally. Thus, you cannot format the SD card externally and this prevents the misuse of the router.

Other Supported Features

- GRPC telemetry is now supported on Cisco ASR 920 routers, for non-default VRF.

- Complete YANG Model for Ethernet EVC Configuration – An Ethernet Virtual Connection (EVC) is defined by the Metro-Ethernet Forum (MEF) as an association between two or more user network interfaces that identifies a point-to-point or multipoint-to-multipoint path within the service provider network. An EVC is a conceptual service pipe within the service provider network.

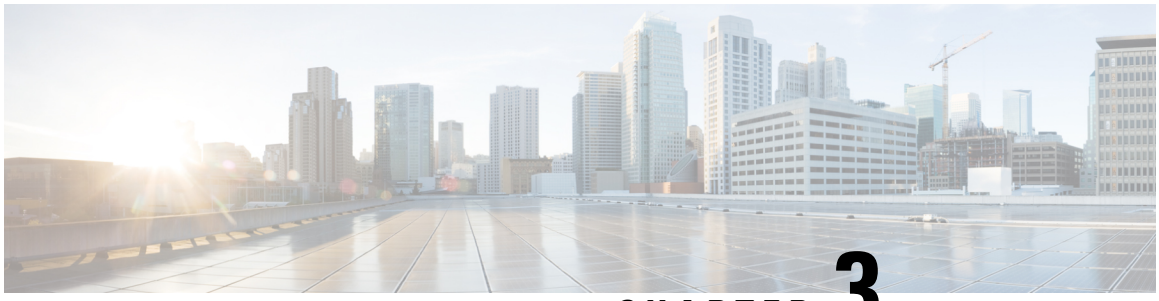
  YANG Data Models—For the list of Cisco IOS XE YANG models available with this release, navigate to https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/1741.

  Revision statements embedded in the YANG files indicate if there has been a model revision. The README.md file in the same GitHub location highlights changes that have been made in the release.

- Complete YANG Model for CFM Configuration – Ethernet Connectivity Fault Management (CFM) is an end-to-end per-service-instance Ethernet layer operations, administration, and maintenance (OAM) protocol. It includes proactive connectivity monitoring, fault verification, and fault isolation for large Ethernet metropolitan-area networks (MANs) and WANs.

  YANG Data Models—For the list of Cisco IOS XE YANG models available with this release, navigate to https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/1741.

  Revision statements embedded in the YANG files indicate if there has been a model revision. The README.md file in the same GitHub location highlights changes that have been made in the release.



CHAPTER 3

Caveats

This chapter describes open and resolved severity 1 and 2 caveats and select severity 3 caveats:

- The "Open Caveats" sections list open caveats that apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.
- The "Resolved Caveats" sections list caveats resolved in a specific release, but open in previous releases.

The bug IDs are sorted alphanumerically.

Note The Caveats section includes the bug ID and a short description of the bug. For details on the symptoms, conditions, and workaround for a specific caveat you must use the Bug Search Tool.

Resolved Caveats – Cisco IOS XE Bengaluru 17.4.2

Caveat ID Number	Description
CSCvu99207	Router: Incorrect STP forwarding state programming in platform.
CSCvw82303	Support for multicast route leaking in native multicast
CSCvw85511	BDI interface is causing high cpu usage.
CSCvw93411	Interface counters not incrementing after 2yrs, 22+ weeks on ASR920-24SZ-M variant
CSCvx01642	PPPoE tag circuit-id remote-id should not be trusted if the interface is in untrusted mode
CSCvx24923	HS1 2.43 FPGA commit for reload/brom select issue

Caveat ID Number	Description
CSCvx41010	Failed to marshal xcvr_sync message: Bad address
CSCvx55831	Ingress Policy with set qos-group action is creating extra TCAM entry with match on Egress Policy
CSCvx99501	Wrong snmp traps are generated for high voltage threshold violations
CSCvr43362	ASR-920-12SZ-IM, ASR-920-12SZ-A/ASR-920-12SZ-D: Fan speed control measures for overheating router

Resolved Caveats – Cisco IOS XE Bengaluru 17.4.2 - Platform Independent

Caveat ID Number	Description
CSCvv79677	Router crashed after BGP flaps
CSCvx19209	ISIS crash in isis_sr_tilfa_compute_protection
CSCvx26650	On configuring route tag under ISIS, TI-lFA is not forming repair path

Open Caveats – Cisco IOS XE Bengaluru 17.4.2

There are no open caveats for this release.

Resolved Caveats – Cisco IOS XE Bengaluru 17.4.1

Caveat ID Number	Description
CSCvk22965	Bulk License "Out of Compliance" support
CSCvs34482	ISSU is not working on Cisco ASR 900 RSP2 nodes
CSCvt33153	Traceback is seen with the following message: `mroute_stats_update`
CSCvt69921	RSP2-128: CMAND core during SSO
CSCvt75327	v1731: Traffic is not seen after performing SSO in Imsg_Mix mode
CSCvt76674	ASR920 : Last reload reason should refelect Rommon_upgrade
CSCvt76777	Adj err obj is seen on removing sr-label-preferred
CSCvt92428	RSP2-128: Step by Step ISSU CMD is not working

Caveat ID Number	Description
CSCvt93010	Traffic drop is seen after Kernel log messages are seen while shut or no shut on Phy/BDI interfaces
CSCvu06547	Require varbind entSensorseveriry along with trap entSensorThresholdNotification
CSCvu13886	v174: Card protection performs shut or no shut on the CPG STS-1e, SLOS alarm is observed on the peer device
CSCvu29991	Historic performance intervals are not present for STS-1e interfaces in the command and SNMP MIB
CSCvu38550	For VCOP configured with type DS3, applique type should be Subrate T3 instead of Channelized T3/T1
CSCvu45833	ISSU: 1612-173: CEM Ckt is stuck at Setup Failed
CSCvu47732	Cisco ASR-920-12SZ-A and Cisco ASR-920-12SZ-D and Cisco ASR-920-20SZ-M: Bundle 1.40 FPGA and support for macronix SPI flash
CSCvu49097	Ports on ASR920-12SZ-D do not come up when 1G SFPs are used
CSCvu51472	Support for SAToP payload 64 byte and dejitter 2 ms in LOTR IMs
CSCvu59602	17.3.1-with transform-set esp-aes complete traffic drop seen after doing "clear crypto session"
CSCvu66126	OC-192 APS group is stuck with signal Fail condition
CSCvu78801	PPPoE VSA tags get overwritten at each PPPoE IA
CSCvu83291	ASR 920 cylon_mgr memory leak is observed due to QoS policer
CSCvu89908	Crash is observed while doing clear crypto session soak run
CSCvu95940	Egress QoS policy configuration is missing on PoCh member link flap
CSCvu92363	SSD: harddisk is full but received %PLATFORM-1-NOSPACE: bootflash : no space alarm assert
CSCvu97954	MAC flaps are observed when using VPLS over backup pseudowire configuration
CSCvu97978	XE BIT : Cisco ASR 900 RSP2 node is crashed with core generation in 16.12 throttle
CSCvv01146	ASR920: Secure bootflash from removal
CSCvv16454	Traffic failure occurs due to MPLS ECMP load-balancing in one of the labelled path
CSCvv24059	RSP2-128 mgr crash is noticed on Cisco ASR 900 RSP when EMPLSINTD is exhausted
CSCvv31617	e2e circuit does not ping, serial interface is up and line protocol is up
CSCvr43362	ASR-920-12SZ-IM, ASR-920-12SZ-A/ASR-920-12SZ-D: Fan speed control measures for overheating router

Open Caveats – Cisco IOS XE Bengaluru 17.4.1

Caveat ID Number	Description
CSCvv87440	Clock class 6 is advertised immediately on T-GM connection restore
CSCvv72192	When IMA2Z IM, XFP and SFP+ are present and then XFP is removed, LED still shows as green
CSCvw34109	PTP RX failure is observed due to LSMPI buffer exhaustion

Cisco Bug Search Tool

Cisco Bug Search Tool (BST), the online successor to Bug Toolkit, is designed to improve effectiveness in network risk management and device troubleshooting. You can search for bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. For more details on the tool, see the help page located at http://www.cisco.com/web/applicat/cbsshelp/help.html