



# **Cisco ASR 920 Series Aggregation Services Routers Feature Compatibility Matrix**

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## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Feature Compatibility Matrix for Cisco ASR-920-12CZ-A/ Cisco ASR-920-12CZ-AD Cisco ASR-920-4SZ-A/ Cisco ASR-920-4SZ-AD Cisco ASR-920-24SZ-IM Cisco ASR-920-24SZ-M Cisco ASR-920-12SZ-IM Cisco ASR-920-12SZ-A/ Cisco ASR-920-12SZ-D Cisco ASR-920-20SZ-M Cisco ASR-920-8S4Z-PD					
	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920-8S4Z-PD	Cisco ASR-920-24SZ-IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ-IM	Cisco ASR-920-12SZ-A, Cisco ASR-920-12SZ-D	Cisco ASR-920-20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
PPP MRRU Negotiation Configuration	NA	NA	3.15.0S	3.16.0S	NA	NA
MPLS - Multilink PPP support	NA	NA	3.15.0S	3.16.0S	NA	NA
Egress Policing on Non Priority Queues	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Synchronous Ethernet (SyncE): ESMC & SSM	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Provide option to enable/disable USB	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
syslog and trigger support for external alarm	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Support for IEEE 1588-2008 Precision Clock Synchronization Protocol	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
REP Configurable Timers aka REP Fast Hellos	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS Packet Marking	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
1588-2008 Boundary Clock	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Hot Standby Pseudowire Support for Ethernet	NA	NA	3.15.0S	3.16.0S	NA	NA
Hot Standby Pseudowire Support for TDM ACs	NA	NA	3.15.0S	3.16.0S	NA	NA
RMON Full	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Y.1731 Performance Monitoring	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Y.1731 Performance Monitoring ( Xconnect & Port-Channel Support )	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Inverse Multiplexing over ATM (IMA)	NA	NA	3.15.0S	3.16.0S	NA	NA
Punt Policing and Monitoring	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

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Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
Multi-protocol BGP (MP-BGP) - MPLS VPN	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Any Transport over MPLS (AToM): ATM AAL5 over MPLS (AAL5oMPLS)	NA	NA	3.15.0S	3.16.0S	NA	NA
Embedded Event Manager (EEM) 4.0	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
ITU-T G.8032 Ethernet Ring Protection Switching	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Circuit Emulation over Packet Switched Network (CESoPSN)	NA	NA	3.15.0S	3.16.0S	NA	NA
Temperature and Voltage Monitoring	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Egress policing and marking	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
1588 PTP Best Master Clock Algorithm (BMCA) a.k.a. PTP Redundancy	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 Routing: IS-IS Support for IPv6	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
DHCPv6 - Relay chaining for Prefix Delegation	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
NTPv4 hardening through import of open source version 4.2.6p2 (July 2010)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MR-APS integration with hotstandby pseudowire	NA	NA	3.15.0S		NA	NA
L2VPN Componentization	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
N:1 PVC mapping to PWE with non-unique VPI	NA	NA	3.15.0S	3.16.0S	NA	NA
E-OAM - CFM CCM Hardware Offload (802.1ag within ms accuracy)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
E-OAM - CFM CCM Hardware Offload (802.1ag within ms accuracy) support for Xconnect & BD Up MEP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv4 unicast routing support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
SAToP over MPLS	NA	NA	3.15.0S	3.16.0S	NA	NA
Circuit Emulation over IP PSN with UDP PW Demultiplexing	NA	NA	3.16.0S	3.16.0S	NA	NA
Ethernet Local Management Interface (E-LMI)					16.9.1	
QoS EXP matching	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Dying Gasp Support for Loss of power supply via SNMP, Syslog and Ethernet OAM	3.13.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	

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	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
6PE support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Min Link Support for Port channel	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Port-Shaper and LLQ in the presence of EFPs	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
match any classification	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IEEE BMCA	3.16.1S	17.1.1	3.16.1S	3.16.1S	16.9.1	
QoS ACLs	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IGMP Snooping on EFP	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IGMP Snooping on Trunk EFP	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IGMP Snooping on Port Channel	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
IGMP Snooping over PW					NA	
IGMP snooping v1, v2, v3 for aggregated links and LAG					16.9.1	
IGMP State Limit	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
iPv4 multicast per VRF					16.9.1	
L2VPN Protocol Based CLI	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Storm Control	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Ethernet Data Plane Loopback (with MAC swap)	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
G.8032 and CFM support for Microwave Adaptive Bandwidth	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Synthetic Frame Loss Measurement (ETH-SLM)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPSLA Support for ETH-SLM (Ethernet Synthetic Loss Measurement in Y1731)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Switch Port Analyzer (SPAN)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Hybrid Clocking Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Time of Day Selection	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
STM1 support	NA	NA	3.15.0S		NA	NA
Any Transport over MPLS (AToM): Ethernet over MPLS (EoMPLS)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

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	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
EVC & BD MIB support for trunk EFP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Ethernet Data-Plane Loopback - Route port support & HA	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Trunk EFP Support on Ether-Channel Interfaces	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Egress default queue limit improvement and percent bandwidth support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS EXP Marking for for Ingress on TDM	NA	NA	3.15.0S	3.16.0S	NA	NA
QoS EXP Marking for for Ingress on ATM	NA	NA	3.15.0S	3.16.0S	NA	NA
1588 BC over MPLS	3.13.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
SR/MR APS for OC12 port on OC3/OC12 IM	NA	NA	3.15.0S		NA	NA
ITU-T Telecom Profile G.8265.1	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Control Plane Policing					16.9.1	
IEEE 802.3ad Link Aggregation (LACP)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
mIppp Egress QoS Support	NA	NA	3.15.0S	3.16.0S	NA	NA
Ingress QoS support for Serial Interface	NA	NA	3.15.0S	3.16.0S	NA	NA
QoS: Global CLI for CoS to EXP table mapping	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
PTP over Native Ethernet	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS Support for Ether Channels	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IP FRR/Remote LFA FRR with L2VPN	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
EVC Default Encapsulation for QinQ & xconnect	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
E-OAM: Multi UNI MEP in the same VPN	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Show Interface Capabilities	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP: ATM and TDM Pseudowires	NA	NA	3.18.0S	3.18.0S	NA	NA
IPv6 Services: Extended Access Control Lists	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 Switching: Provider Edge Router over MPLS (6PE)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP GSHUT enhancement	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP Monitoring Protocol	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

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	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
VRF aware BGP translate-update	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP - RTC for legacy PE	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IOS VRF Multicast Multi-Topology Support	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
End-to-End Transparent Clocking	3.15.0S	17.1.1	3.15.0S	3.17.0S	16.9.1	
Multi-Topology BGP with VRF enhancement	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
POS Concatenation mode on STM1/4 IM	NA	NA	3.15.0S		NA	NA
ISIS local microloop protection	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Autonomic Networking: Certificate Management	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IP tunnel: Autonomic Networking Support	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
AutoInstall Using DHCP for LAN Interfaces	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
ATM/IMA/PPP/MLPPP Support on OC3 Interface Module	NA	NA	3.17.0S	3.17.0S	NA	NA
IP SLA - Service Performance Testing Infrastructure	3.18.0SP	17.1.1	3.18.0SP	3.18.0SP	16.9.1	
MPLS Traffic Engineering (TE) - Fast Reroute (FRR) Link and Node Protection	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP - Accumulated IGP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
802.1ad	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
TWAMP RFC compliance	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Table Map	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
G.8032 (3.3 ms CCM)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP support on SVI Interface						
IEEE 802.1p Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IP FRR over BDI	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
NTP Timestamping	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Audio Media Sense	3.13.0S	17.1.1		3.16.0S	16.9.1	
Smart Licensing with HA Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Dual Rate	3.13.0S	17.1.1		3.16.0S	16.9.1	

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	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
IPv6 Routing: OSPF for IPv6 (OSPFv3)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Remote SPAN (RSPAN)	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
DHCP Snooping	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD over TDM Routed	NA	NA	3.15.0S	3.16.0S	NA	NA
L2PT - Layer 2 Protocol Tunneling	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
ME3600x-24CX OC3 Port Support	NA	NA		NA	NA	NA
ME3600/ME3800: HDLC Support on T1/E1 IM	NA	NA		NA	NA	NA
Secure Shell SSH Version 2 Client Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 QoS: MQC Packet Classification	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 Routing: Static Routing	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 Switching: CEF/dCEF Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
SNMP over IPv6	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Sonet Mode support on OC3 IM	NA	NA	3.15.0S		NA	NA
Channelization support for OC3 IM	NA	NA	3.15.0S		NA	NA
PIM Version 2	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD Support for Multicast(PIM)	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Any Transport over MPLS (AToM): ATM Cell Relay over MPLS: Packed Cell Relay	NA	NA	3.15.0S	3.16.0S	NA	NA
Class-based QoS MIB	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS (Multiprotocol Label Switching)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
CDP (Cisco Discovery Protocol) Version 2	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 VPN over MPLS (6VPE)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
PTP over Native Ethernet	3.13.0S	17.1.1	3.13.0S	3.16.0S	16.9.1	
EVC Local Connect	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
IEEE 802.1Q VLAN Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	



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	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
SNMPv3 (SNMP Version 3)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Configurable Per VLAN MAC Learning (PVL)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS LDP - IGP Synchronization	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Class Based Policing	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Y.1731 DMMv1	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS over POS Support	NA	NA	3.15.0S		NA	NA
QoS Support on POS on OC3 IM	NA	NA	3.15.0S		NA	NA
RSVP - Resource Reservation Protocol	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Remote Monitoring MIB Update	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Class Based Weighted Fair Queuing (CBWFQ)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS on serial TDM interface	NA	NA	3.15.0S	3.16.0S	NA	NA
IPv6 ACL	3.13.0S	17.1.1		3.16.0S	16.9.1	
Auto-MDIX	3.13.0S	17.1.1	NA	NA	NA	NA
Port licensing	NA	NA	3.15.0S		NA	NA
PPP	NA	NA	3.15.0S	3.16.0S	NA	NA
HSRP support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Microwave ACM Signaling and EEM integration	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
Microwave ACM Signaling over P2MP Topologies	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
SNMPv3 - 3DES and AES Encryption Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
TACACS+	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS Forwarding Infrastructure Scalability	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
STP Syslog Messages	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
L2PT - Layer 2 Protocol Tunneling on Trunk Ports	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 Routing: Unicast Routing	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Diffserv Compliant WRED	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
BGP Support for TCP Path MTU Discovery per Session	3.13.0S	17.1.1	3.13.0S	3.16.0S	16.9.1	
Ethernet Connectivity Fault Management (E-CFM)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
SNMP (Simple Network Management Protocol)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Support for dissimilar PHB match at Ingress and Egress for mpls/vpls interface.	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
MPLS VPN - Inter-Autonomous System Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
OSPF TTL Security Check	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
DS3 support on OC3 port	NA	NA	3.15.0S		NA	NA
Ethernet Operations, Administration, and Maintenance (OAM)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Service Activation	3.16.0S	17.1.1	3.16.0S		16.9.1	
Etherchannel Min-Links	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IP 16-way Equal-Cost Multipath	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
RADIUS	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Ethernet Local Management Interface (LMI) at Provider Edge (PE)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MLPPP - Multilink PPP	NA	NA	3.15.0S		NA	NA
LMM Support for Smart SFP	3.13.0S	17.1.1			16.9.1	
DHCP Option 82 Configurable Circuit ID and Remote ID	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS Virtual Private Networks (VPN)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
DHCP - DHCPv6 Relay Agent notification for Prefix Delegation	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
onePK SS: Policy API for QoS Multi-Action Policer	3.15.0S	17.1.1	3.15.0S			
Interfaces MIB: SNMP context based access	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IEEE 802.1ab LLDP (Link Layer Discovery Protocol)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Network Time Protocol (NTP)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
EFP aware QoS	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IEEE 802.1ag ( CFM ) Support on Port-Channel Interface	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
Access Circuit Redundancy	NA	NA	3.15.0S		NA	NA
Secure Copy (SCP)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
ACFC and PFC support on Multilink interface	NA	NA	3.15.0S	3.16.0S	NA	NA
REP - (Resilient Ethernet Protocol)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
1 rate 2 color per EVC policer	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD - Static Route Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD IPv6 Encaps Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 - Static Route support for BFD over IPv6	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP Support for 4-byte ASN	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
EVC 2.0 - Advanced VLAN translations & service mapping based on 802.1ah	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
EVC MIB	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Dual Rate Three Color Ingress Policer on Service Instances	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Clear Channel ATM	NA	NA	3.18.0S	3.18.0S	NA	NA
MST on EVC Bridge-Domain	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
TDM clock recovery	NA	NA	3.15.0S	3.16.0S	NA	NA
SLM Over VPLS	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
TSoP Smart SFP -STM1	NA	NA	3.17.0S	3.17.0S	NA	NA
OC3/OC12 CEP SFP				3.18.0SP	NA	NA
X.21 over MPLS	NA	NA		16.6.1	NA	NA
Async RS232 over MPLS	NA	NA		16.6.1	NA	NA
Port Based License - 12/1G Bundle	NA	NA	3.14.0S	NA	NA	NA
ACL- DSCP Matching	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
ACL - Source & Destination Address Matching	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
E&M over MPLS	NA	NA		16.6.1	NA	NA
ACL - IP Protocol	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
Ingress QoS support for Serial Interface	NA	NA			NA	NA
Static MAC binding to EVCs and Psuedowires	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IP SLAs TWAMP Responder v1.0	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IEEE 802.1W Spanning Tree Rapid Reconfiguration					16.9.1	
Modular QoS CLI (MQC)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
CFM over EFP interface configured with xconnect	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Resilient Ethernet Protocol-no-edge-neighbour-enhancement	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Jumbo Frames	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IP FRR	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Synchronous Ethernet Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
CEM support on 8 port T1E1 IM	NA	NA	3.14.0S	3.16.0S	NA	NA
PIM Version 2	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Ordinary Clock Master					16.9.1	
PTP High Jitter Mode					16.9.1	
IPv6 Multicast: Multicast Listener Discovery (MLD) Protocol, Versions 1 and 2	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
IPv6 Multicast: PIM Sparse Mode (PIM-SM)	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
IPv6 Multicast: PIM Source-Specific Multicast (PIM-SSM)	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
IPv6 Multicast: PIM Embedded RP Support	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
IPv6 Multicast: PIM Accept Register	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
PoE Plus (PoE+, PoEP) support	NA	NA	NA	3.16.0S	16.9.1	
Fp init fails with Qos policies and with huge range of BD on TEFP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Set and police in the same class-map (Ingress and Egress)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Egress Port Level Policy with Ingress EFP Level Policy	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
OSPF doesn't come up when PIM is enabled on VPLS core interface	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
VRRPv3 Protocol Support	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD Support for HSRP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
L2VPN Static to Dynamic PW Interconnection & PW Preferred Path for MPLS-TP Tunnels	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP: PW Redundancy for Static PWs	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP: MS-PW with Static and Dynamic PW Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
L2VPN: PW Status for Static PWs	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Bidirectional MPLS-TP LSP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP Path Protection	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP OAM: GACH	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP OAM: Continuity Check via BFD	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP OAM: Ping/Trace	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP OAM: Fault Management	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD - BFD Hardware Offload Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Kerberos V Client Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Unicast Reverse Path Forwarding (uRPF)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
CFM Extension for 1+1 Hot-Standby Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
VPLS over MPLS-TP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP: LDP signaling over MPLS TP LSPs	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP: IP addresses for MPLS TP interfaces	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS TP: IP-less configuration of MPLS TP tunnels	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Callhome V2 enhancements	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Call Home V3	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP - MP-iBGP NSR					16.9.1	
Cisco-BGP-MIBv2	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
Trunk EFP support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MVPN	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
CSL (Cisco Secure Licensing Support)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD: BGP multihop client Support (IPv4/IPv6)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP: Gracefull Shutdown (GSHUT)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MFI -Extended LFA	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MAC Limiting per VFI and BD	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IEEE 802.3x Flow Control	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
CFM Support on Trunk EFP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Link Path Through	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Spanning Tree Protocol (STP)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Static VPLS over MPLS-TP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS-TP MIB	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS -TP: IP Less trace support (Nodeld, Linkid)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
VPLS BGP Signaling	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Y.1731 enhancements (On-demand & Concurrent support)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MFI - VPLS BGP sig	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Unicast Reverse Path Forwarding (uRPF) Loose mode	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
uRPF for IPv6 (Strict and Loose mode)	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
IS-IS Support for BFD over IPv6	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP PIC (edge & core) - for RFC-3107 labeled iBGP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS Classification based on EFP	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BD and CFM Protocol Based New CLI Model	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Offloading IPv4 Async BFD sessions with 3.3ms timers	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS: Global CLI for CoS to EXP table mapping	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
L2VPN Protocol Base CLIs	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS -TP: Linear Protection/PSC support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
QoS support for dataplane loopback for EFP	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
BFD Debug Enhancement	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD Deterministic Hardware Offload	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Remote LFA FRR and labeled BGP FRR integration	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Pseudowire Group Switchover	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Auto-IP	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
TCAM threshold based alarms	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Onboard Failure Logging					16.9.1	
Secure Boot Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
VPLS over remote LFA	3.13.0S	17.1.1			16.9.1	
Autoroute announce and forwarding adjacencies for OSPFv3 over IPv4 TE tunnels	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
onePK SS: Policy	3.14.0S	17.1.1	3.14.0S		16.9.1	
OnePK	3.14.0S	17.1.1	3.14.0S		16.9.1	
Flexlink	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Control Plane Security (CoPP)	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
REP-AG Enhancements	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Prefix Independent Convergence with Fast Re-Route Over Bridge Domain Interface	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP Per Neighbor Graceful Restart Configuration					16.9.1	
Routed Pseudo-Wire and Routed VPLS	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
WAN mode support	NA	NA	3.14.0S	3.16.0S	16.9.1	
CFM Support for Cylon ASIC with integrated OAM HW offload	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
PIM DR Loadbalancing	3.14.0S	17.1.1		3.16.0S	16.9.1	
PTP-SYNCE on 10G interface in WANPHY mode	NA	NA	3.15.0S	3.16.0S	16.9.1	
eCPU & FPGA stats	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
VRRP and LLDP MED support for ZTP (vLAN 127 Support)	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
EVC 2.0 - 802.1ad Provider Bridges Support	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
nV Access for ME1200	3.14.0S	17.1.1	3.14.0S		16.9.1	
EFP policers without Ingress TCAM consumption	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Enhanced Tracking Support / Enhanced Object Tracking / EOT	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Source Specific Multicast (SSM) Mapping	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
DAI (Dynamic ARP Inspection)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Secure Shell SSH Version 2 Server Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Field Programmable Device Upgrade Tool	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Virtual Private LAN Services (VPLS)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IS-IS Support for BFD over IPv4	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
OSPF Support for BFD over IPv4	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IPv6 SDM Template	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Access Switch Device Manager (SDM) Template - Default	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Access Switch Device Manager (SDM) Template - IP & Video	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
MQC - Multi-Level Priority Queue	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BFD Echo Mode	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
IS-IS - MPLS LDP Autoconfiguration	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
VPLS Autodiscovery, BGP based	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
LACP 1-1 redundancy with fast switchover	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Multichassis LACP (mLACP)	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	



## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
BGP Support for BFD	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
CISL - SNMP Support	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
4293 IP-MIB (IPv6 only) and RFC 4292 IP-FORWARD-MIB (IPv6 only)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
H-VPLS N-PE Redundancy for MPLS Access	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Label Switched Multicast (LSM) Multicast Label Distribution Protocol (mLDP) based Multicast VPN (mVPN) support	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
VPLS MAC Address Withdrawal	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Enhanced Ingress Hierarchical Policing	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS TE - Bundled Interface Support (EtherChannel and MLP)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MAC Address Limiting on Service Instance / Bridge Domain	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
L2 ACL on Service Instance on Port-channel	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MAC Address Security for EVC Bridge-Domain	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
PPPoE Client on BDI	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
Qos EVC Push Rewrite	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
Label Switched Multicast Point-to-Multipoint Traffic Engineering	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
NSR - LDP Support	NA	NA	NA	NA	16.9.1	
Hop-by-Hop BC in a ring with master/slave role reversal	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
BGP PIC Edge/Core VPNv6	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
ACL - ICMP Code	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
DHCP Server v6	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
IPv6 DHCP Client	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
IEEE 1588v2 (PTP) Asymmetric Phase Correction					16.9.1	
BCP Support over MLPPP	16.5.1	17.1.1	16.5.1	16.5.1	NA	NA
IKE Security Protocol				3.18.0S	NS	NS
IPSec Triple DES Encryption (3DES)				3.18.0S	NS	NS

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
Encrypted Pre-shared Key				3.18.0S	NS	NS
Advanced Encryption Standard (AES)				3.18.0S	NS	NS
IKE Mode Configuration				3.18.0S	NS	NS
Multicast Source Discovery Protocol (MSDP)	3.14.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
MPLS OAM Support for Multisegment Pseudowires	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Static MAC binding to EVCs and Psuedowires	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
BGP PIC Edge for IP/MPLS	3.13.0S	17.1.1			16.9.1	
GNSS reciever support	NA	NA	NA	3.17.0S	16.9.1	
UniDirectional Link Detection (UDLD)	3.13.0S	17.1.1	3.14.0S	3.16.0S	16.9.1	
Policy-Based Routing (PBR)	NA	NA	3.16.0S	3.16.0S	16.9.1	
PTP Hybrid BMCA	3.15.0S	17.1.1	3.15.0S		16.9.1	
QoS Priority Propagation in Multi-level Scheduler	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
3G/4G USB Dongle Support	3.15.0S	17.1.1	3.15.0S		16.9.1	
IEEE 802.1Q Custom Ethertype	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
Hierarchical Color-Aware Policing	3.15.0S	17.1.1	3.15.0S	3.16.0S	16.9.1	
8 path ECMP	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
Support sending PW Grouping ID TLV	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
Image Signing	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
Priority Queing - Shaper support	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
Segment Routing - ISIS v4 node SID	3.16.0S	17.1.1	3.16.0S	3.16.0S	16.9.1	
Option to disable volume-based IPsec lifetime rekey	NA	NA	NA	3.18.0S	NS	NA
IPSec Dead Peer Detection (DPD) Periodic Message Option	NA	NA	NA	3.18.0S	NS	NA
IPSec Anti-Replay Window: Expanding and Disabling	NA	NA	NA	3.18.0S	NS	NA
IKE - PKCS12 Support	NA	NA	NA	3.18.0S	NS	NA
Certification Authority Interoperability (CA)	NA	NA	NA	3.18.0S	NS	NA

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
Wildcard Pre-Shared Key	NA	NA	NA	3.18.0S	NS	NA
PKI Integration with AAA Server	NA	NA	NA	3.18.0S	NS	NA
Phase profile G8275.1	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
Phase profile G8273.2	3.18.0SP	17.1.1	3.18.0SP	3.18.0SP	16.9.1	
FlexLSP base functionality	3.18.0SP	17.1.1	3.18.0SP	3.18.0SP	16.9.1	
PKI - CLI to Control Certificate Revocation List (CRL) Cache	NA	NA	NA	3.18.0S	NS	NA
CRL pre-fetch with tunable timers	NA	NA	NA	3.18.0S	NS	NA
Delete crypto session(s) of revoked peer cert(s) on CRL download	NA	NA	NA	3.18.0S	NS	NA
OCSP (Online Certificate Status Protocol)	NA	NA	NA	3.18.0S	NS	NA
VLAN Scale Convergence	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
Ethernet Fault Detection	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
Qos Support for VLAN Translation	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
CFM over CVLAN	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
MLDP Extranet	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
MPLS-TE over BDI	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
L3 Security ACL for EVC support	3.17.0S	17.1.1	3.17.0S	3.17.0S	16.9.1	
Flexi License	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
IPV6 MVPN with MLDP	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
Circuit Emulation over UDP on A900-IMA32D on ASR900 RSP2 and ASR920	NA	NA	3.18.0S	3.18.0S	NA	NA
Netflow with EFP support	3.18.0SP	17.1.1	3.18.0SP	3.18.0SP	NS	NA
PPPoE Intermediate Agent	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
Asymmetric EFP	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
EVPN VPWS	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
Ethernet loopback for untagged/default	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
Larger String for EVC VLAN Encapsulation	3.18.0S	17.1.1	3.18.0S	3.18.0S	16.9.1	
8K EFP per box (rsp3) + 4K EFP per port					16.9.1	
ASR 900 4 port C37.94 Interface Module				16.6.1	NA	NA
OTN Wrapper on Ethernet cards: 2x10GE, 1x10G+8x1G					16.9.1	
Differential clock recovery on 9xOCn IM interfaces					16.9.1	
Differential clock recovery on DSx interfaces					16.9.1	
APS support on 9xOCn IM					16.9.1	
DCC support on 9xOCn IM					16.9.1	
STM-4 TSoP	NA	NA	3.18.0S	3.18.0S	NA	NA
G.8275.2	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
VRF Aware IPsec	NA	NA	NA	NA	NA	NA
PVST/RPVST	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
Egress Shaping on MLPPP Bundle	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
Egress QoS Support on MLPPP Bundle (Strict Priority Queuing)	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
1G on 8x10G IM					16.9.1	
100G IM OTN					16.9.1	
Flex LSP Phase-2	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
UPSR					NA	NA
5G XFI					NA	NA
Adaptive Clock Recovery (ACR) for 8 T1/E1 - only for CEM over MPLS	16.5.1	17.1.1	16.5.1	16.5.1	NA	NA
10G SADT	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
VPLS Over BDI/PC	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
Static PW with OAM enabling Remote Port Shutdown	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	
System clock at 1.4MHz					16.9.1	
TWAMP with VRF support	16.5.1	17.1.1	16.5.1	16.5.1	16.9.1	

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
1mHz Bandwidth settings with GNSS Enabled					16.9.1	
mVPN-GRE over Physical Interface & BDI					16.9.1	
Active / Active QoS					16.9.1	
FMEA	16.11.1	17.1.1	16.11.1	16.11.1	16.9.1	
RSP2 Rebranding					16.9.1	
IP Source Guard	16.6.1	17.1.1			16.9.1	
MEF OpNID/Latching Loopback	16.7.1	17.1.1	16.7.1	16.7.1	16.9.1	
L2CP protocol for forward/discard at EVC (MRP, MMRP, MVRP)	16.7.1	17.1.1	16.7.1	16.7.1	16.9.1	
VLAN on Trunk EFP	16.7.1	17.1.1	16.7.1	16.7.1	16.9.1	
Eomer 3G card				16.7.1	16.9.1	
AIS support on IMS8D, IMA16D	16.7.1	17.1.1	16.7.1	16.7.1	NA	NA
SADT - FPGA Support					16.9.1	
BFD support on IPv6					16.9.1	
Backup PW on VPLS	16.8.1	17.1.1	16.8.1	16.8.1	16.9.1	
Support for multi-priority level queue	16.8.1	17.1.1	16.8.1	16.8.1	16.9.1	
SDM Template for IPv6 L3 Classification	16.8.1	17.1.1	16.8.1	16.8.1	16.9.1	16.9.1
Generic Routing Encapsulation (GRE) - RFC 2784	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
COPP	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
Runtime Defenses: ASLR, BOSC, X-Space	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
ASR920 Video Template - IPv4 QoS classifications Scalability Increase	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
Enhancement - Micro BFD	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
GigE UNI does not provide full throughput when VLAN tag is applied	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
CoS marking for locally originated packets	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	
SR-TE: Affinity constraints for ODN	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
SR-TE ODN Color Extended Community (L3VPN)	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
IP SLA for Pseudowire	16.11.1	17.1.1	16.11.1	16.11.1		
Kernel migration to 4.9 (from 3.9) for RSP3				16.11.1	16.11.1	16.11.1
NETCONF/RESTCONF service level ACLs	16.11.1	17.1.1	16.11.1	16.11.1	16.11.1	16.11.1
BITS Framers Software Support for ASR920, ASR900, NCS 4200	16.12.1	17.1.1	16.12.1	16.12.1	16.12.1	16.12.1
SR - uLoop Avoidance - ASR 920	16.12.1	17.1.1	16.12.1	16.12.1	16.12.1	16.12.1
NCS 4201/4202: Y.1564 10G internal mode	16.12.1	17.1.1	16.12.1	16.12.1	16.12.1	16.12.1
DS3/OCn Smart VCOP support on ASR-920-4SZ Variant	16.12.1	17.1.1				
DS1 Smart VCOP support on ASR920/NCS 4200	16.12.1	17.1.1	16.12.1	16.12.1	16.12.1	16.12.1
NCS 4200 is truncating delay stats in SNMP MIB for Y.1731	16.12.1	17.1.1	16.12.1	16.12.1	16.12.1	16.12.1
LDP-BGP Tracking	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
Configurable OH Accounting for 4201/4202/RSP2	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
gRPC Network Management Interface (gNMI)	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
Model Driven Telemetry - gNMI Dial-In	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
ONS 10G I-temp support	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
PTP Multi-Profile Support On ASR903 and ASR920	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
SR: Low-Latency Network Slice (PCE Delegated) - Configurable Link Delay Value + Flooding in ISIS / BGP-LS - ASR 900 / RSP2	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
SR-Services: L2VPN (VPWS+VPLS) and EVPN VPWS (Single-Homing) over SR - ASR 900 / RSP2	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
4X10G (ASR-920-8S4Z-PD)	17.1.1	17.1.1				
Traps and Performance MIBs for GNSS				17.1.1	17.1.1	
SR-TE ODN Color Extended Community (L3VPN) - ASR 900 / RSP2	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1
MPLS TE: Newer SR-TE Policy CLI	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1	17.1.1

## Feature Compatibility Matrix for the Cisco ASR920 Series Aggregation Services Routers

Feature Name	Cisco ASR-920-12CZ-A/D, Cisco ASR-920-4SZ-A/D	Cisco ASR-920- 8S4Z-PD	Cisco ASR-920-24SZ- IM, ASR-920-24SZ-M, ASR-920-24TZ-M	Cisco ASR-920-12SZ- IM	Cisco ASR-920- 12SZ-A, Cisco ASR-920- 12SZ-D	Cisco ASR-920- 20SZ-M
	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release	Supported Release
SyncE yang module Telemetry integration	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
Native Multicast SLA Measurement	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
Aggregated Interface Stats on Bundle	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
SRTE: PM: Sampled One-way End to End Delay (SR-Policy) Measurement - ASR 900 / RSP2	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
SR: PM: Delay measurement using RFC5357 (TWAMP Light) encoding (SW punt path timestamp) - ASR 900 / RSP2	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
SR-Services: EVPN (ELAN) L2 Gateway - RFC 7432 (Single-Homing) - ASR900 / RSP2	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
SRTE: Static route traffic steering using SRTE Policy	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
SRTE: Per-Flow (Class) ODN and Automated Steering (IPv4 GRT + L3VPN-VPNv4/v6 Services Steering) - ASR 900 / RSP2	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
SRTE: ISIS Flex Algo (Ph1): Metric minimization, avoidance, multi-plane, delay metric w/ rounding, Inter-Area - ASR 900 / RSP2	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
KGV E2E Solution - IOS XE Platforms	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
Static PW over P2MP	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
ASR920 IMA3G 1+1 OC3/12 single card APS support			17.3.1	17.3.1		
TWS - 17.3.1 PSB compliance testing and Automation (SP Access)	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1
BFD Dampening	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1	17.3.1

**Legend:**

Blank Cells indicate the feature is not supported in a release yet.  
 NA indicates that the feature will not be supported on that platform.