



Cisco ASR 900 Series Aggregation Services Routers Feature Compatibility Matrix

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Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers



| FeatureName | RSP1 | RSP2 | RSP3 |
|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| PPP MRRU Negotiation Configuration | 3.6.0S1 | 3.14.0S | |
| MPLS - Multilink PPP support | 3.9.0S | 3.14.0S | |
| Egress Policing on Non Priority Queues | 3.6.0S | 3.13.0S | NA |
| Synchronous Ethernet (SyncE): ESMC & SSM | | | 3.16.1S |
| MPLS TE NSR | 3.13.0S | 3.13.0S | |
| Provide option to enable/disable USB | 3.12.0S | 3.13.0S | 3.16.1S |
| syslog and trigger support for external alarm | 3.13.0S | 3.13.0S | 3.16.1S |
| HSRP: Global IPv6 Address | | | |
| Support for IEEE 1588-2008 Precision Clock Synchronization Protocol | 3.5.0S | 3.13.0S | 3.16.1S |
| REP Configurable Timers aka REP Fast Hellos | 3.6.0S | 3.13.0S | |
| QoS Packet Marking | 3.5.0S | 3.13.0S | 3.16.1S |
| 1588-2008 Boundary Clock | 3.5.0S | 3.13.0S | 3.16.1S |
| Hot Standby Pseudowire Support for Ethernet | 3.7.0S | 3.13.0S | |
| Hot Standby Pseudowire Support for TDM ACs | 3.7.0S | 3.15.0S | |
| RMON Full | 3.13.0S | 3.13.0S | |
| Y.1731 Performance Monitoring | 3.5.0S | 3.13.0S | 3.18.0S |
| Y.1731 Performance Monitoring (Xconnect & Port-Channel Support) | 3.6.0S | 3.13.0S | |

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| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Inverse Multiplexing over ATM (IMA) | 3.5.0S | 3.15.0S | |
| Punt Policing and Monitoring | 3.5.0S | 3.13.0S | 3.16.1S |
| Multi-protocol BGP (MP-BGP) - MPLS VPN | 3.5.0S | 3.13.0S | 3.16.1S |
| Any Transport over MPLS (AToM): ATM AAL5 over MPLS (AAL5oMPLS) | 3.6.0S | 3.15.0S | |
| Embedded Event Manager (EEM) 4.0 | 3.9.0S | 3.13.0S | 3.16.1S |
| ITU-T G.8032 Ethernet Ring Protection Switching | 3.6.0S | 3.13.0S | 3.16.1S |
| Circuit Emulation over Packet Switched Network (CESoPSN) | 3.5.0S | 3.14.0S | 3.16.1S |
| Temperature and Voltage Monitoring | 3.13.0S | 3.13.0S | 3.16.1S |
| Egress policing and marking | 3.6.0S | 3.13.0S | 3.16.1S |
| 1588 PTP Best Master Clock Algorithm (BMCA) a.k.a. PTP Redundancy | 3.7.0S | 3.13.0S | 3.16.1S |
| IPv6 Routing: IS-IS Support for IPv6 | 3.5.0S | 3.13.0S | 3.16.1S |
| DHCPv6 - Relay chaining for Prefix Delegation | 3.6.0S | 3.13.0S | |
| NTPv4 hardening through import of open source version 4.2.6p2 (July 2015) | 3.5.0S | 3.13.0S | |
| MR-APS integration with hotstandby pseudowire | 3.11.0S | 3.14.0S | |
| L2VPN Componentization | 3.6.0S | 3.13.0S | 3.16.1S |
| N:1 PVC mapping to PWE with non-unique VPI | 3.7.0S | 3.15.0S | |
| E-OAM - CFM CCM Hardware Offload (802.1ag within ms accuracy) | 3.5.0S | 3.13.0S | 3.16.1S |
| E-OAM - CFM CCM Hardware Offload (802.1ag within ms accuracy) support for Xconnect & BD Up MEP | 3.6.0S | 3.13.0S | 3.16.1S |
| IPv4 unicast routing support | 3.5.0S | 3.13.0S | 3.16.1S |
| SAToP over MPLS | 3.5.0S | 3.14.0S | 3.16.1S |
| Circuit Emulation over IP PSN with UDP PW Demultiplexing | 3.14.0S | 3.16.0S | |
| L2&L3 QoS ACL classification | 3.16.1S | 3.16.1S | 3.16.1S |
| SSO Support for REP Fast Hellos | 3.5.0S1 | 3.13.0S | |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| QoS EXP matching | 3.5.0S | 3.13.0S | 3.16.1S |
| QoS Support | 3.5.0S | 3.13.0S | 3.16.1S |
| Dying Gasp Support for Loss of power supply via SNMP, Syslog and Ethe | 3.11.0S | 3.14.0S | |
| 6PE support | 3.6.0S | 3.13.0S | |
| Min Link Support for Port channel | 3.5.0S | 3.13.0S | 3.18.0S |
| Port-Shaper and LLQ in the presence of EFPs | 3.6.0S | 3.13.0S | 3.16.1S |
| match any classification | 3.6.0S | 3.13.0S | 3.16.1S |
| IEEE BMCA | 3.16.1S | 3.16.1S | 3.16.1S |
| Right To Use (RTU) licensing support | 3.12.0S | 3.13.0S | 3.16.1S |
| QoS ACLs | 3.6.0S | 3.13.0S | 3.16.1S |
| IGMP Snooping on EFP | 3.10.0S | 3.14.0S | 3.16.1S |
| IGMP Snooping on Trunk EFP | 3.16.0S | 3.14.0S | 3.16.1S |
| IGMP Snooping on Port Channel | 3.16.0S | 3.16.0S | |
| IGMP State Limit | 3.6.0S | 3.13.0S | 3.16.1S |
| iPv4 multicast per VRF | | | 3.16.1S |
| L2VPN Protocol Based CLI | 3.7.0S | 3.13.0S | 3.16.1S |
| Storm Control | 3.10.0S | 3.14.0S | 3.19.0S |
| Ethernet Data Plane Loopback (with MAC swap) | 3.11.0S | 3.14.0S | 16.5.1 |
| G.8032 and CFM support for Microwave Adaptive Bandwidth | 3.8.0S | 3.13.0S | 3.16.1S |
| Synthetic Frame Loss Measurement (ETH-SLM) | 3.8.0S | 3.13.0S | 3.18.0S |
| IPSLA Support for ETH-SLM (Ethernet Synthetic Loss Measurement in Y1731) | 3.7.0S | 3.13.0S | 3.18.0S |
| Switch Port Analyzer (SPAN) | 3.7.0S | 3.13.0S | 3.16.1S |
| Hybrid Clocking Support | 3.7.0S | 3.13.0S | 3.16.1S |

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| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Time of Day Selection | 3.7.0S | 3.13.0S | 3.16.1S |
| STM1 support | 3.6.0S | 3.14.0S | |
| Any Transport over MPLS (AToM): Ethernet over MPLS (EoMPLS) | 3.5.0S | 3.13.0S | 3.16.1S |
| EVC & BD MIB support for trunk EFP | 3.8.0S | 3.13.0S | 3.16.1S |
| Ethernet Data-Plane Loopback - Route port support & HA | 3.11.0S | 3.14.0S | |
| Trunk EFP Support on Ether-Channel Interfaces | 3.8.0S | 3.13.0S | 3.18.0S |
| Egress default queue limit improvement and percent bandwidth support | 3.8.0S | 3.13.0S | 3.16.1S |
| QoS EXP Marking for for Ingress on TDM | 3.9.0S | 3.14.0S | |
| QoS EXP Marking for for Ingress on ATM | 3.9.0S | 3.15.0S | |
| 1588 BC over MPLS | 3.6.0S1 | 3.13.0S | 3.16.1S |
| SR/MR APS for OC12 port on OC3/OC12 IM | 3.9.0S | 3.14.0S | |
| ITU-T Telecom Profile G.8265.1 | 3.8.0S | 3.13.0S | 3.16.1S |
| IEEE 802.3ad Link Aggregation (LACP) | 3.5.0S | 3.13.0S | 3.18.0S |
| mlppp Egress QoS Support | 3.7.0S2 | 3.14.0S | |
| Ingress QoS support for Serial Interface | 3.13.0S | 3.14.0S | |
| QoS: Global CLI for CoS to EXP table mapping | | 3.14.0S | |
| PTP over Native Ethernet | 3.9.0S | 3.13.0S | |
| QoS Support for Ether Channels | 3.9.0S | 3.13.0S | 3.18.0S |
| IP FRR/Remote LFA FRR with L2VPN | 3.9.0S | 3.13.0S | 3.16.1S |
| EVC Default Encapsulation for QinQ & xconnect | 3.5.0S | | 3.16.1S |
| Show Interface Capabilities | | | 3.16.1S |
| MPLS-TP: ATM and TDM Pseudowires | 3.8.0S | 3.18.0S | |
| Remote LFA FRR protection for TDM and ATM PWs | 3.10.0S | | |
| IPv6 Services: Extended Access Control Lists | 3.16.0S | 3.14.0S | |

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|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| IPv6 Switching: Provider Edge Router over MPLS (6PE) | 3.6.0S | 3.13.0S | 3.18.0SP |
| BGP GSHUT enhancement | 3.11.0S | 3.13.0S | |
| BGP Monitoring Protocol | 3.11.0S | 3.13.0S | |
| VRF aware BGP translate-update | 3.11.0S | 3.13.0S | |
| BGP - RTC for legacy PE | 3.11.0S | 3.13.0S | |
| IOS VRF Multicast Multi-Topology Support | 3.11.0S | 3.13.0S | |
| End-to-End Transparent Clocking | 3.7.0S | 3.13.0S | 3.16.1S |
| Multi-Topology BGP with VRF enhancement | 3.11.0S | 3.13.0S | |
| POS Concatenation mode on STM1/4 IM | 3.8.0S | 3.14.0S | |
| ISIS local microloop protection | 3.11.0S | 3.13.0S | 3.16.1S |
| Autonomic Networking: Certificate Management | 3.13.0S | | |
| IP tunnel: Autonomic Networking Support | 3.11.0S | 3.14.0S | |
| AutoInstall Using DHCP for LAN Interfaces | 3.12.0S | 3.13.0S | |
| ATM/IMA/PPP/MLPPP Support on OC3 Interface Module | 3.6.0S1 | 3.15.0S | |
| Table map support along with Policers | | | |
| IPSLA Y1731 SLM Feature Enhancements | 3.8.0S | 3.13.0S | 3.18.0S |
| IP SLA - Service Performance Testing Infrastructure | 3.18.0SP | 3.18.0SP | 16.5.1 |
| MPLS Traffic Engineering (TE) - Fast Reroute (FRR) Link and Node Protection | 3.6.0S | 3.13.0S | 3.18.0SP |
| BGP - Accumulated IGP | 3.12.0S | 3.13.0S | 3.16.1S |
| 802.1ad | 3.13.0S | 3.14.0S | 3.18.0SP |
| TWAMP RFC compliance | 3.12.0S | 3.13.0S | 16.5.1 |
| Table Map | | 3.14.0S | |
| G.8032 (3.3 ms CCM) | 3.6.0S | NA | 3.16.1S |

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| FeatureName | RSP1 | RSP2 | RSP3 |
|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| IEEE 802.1p Support | 3.6.0S | 3.13.0S | 3.16.1S |
| IP FRR over BDI | 3.11.0S | 3.13.0S | 3.16.1S |
| NTP Timestamping | 3.12.0S | 3.13.0S | |
| Multicast support on T1/E1 & OC3 IMs | 3.8.0S | | |
| AAL5 termination with L3QoS | 3.11.0S | 3.14.0S | |
| Audio Media Sense | | NA | |
| Smart Licensing with HA Support | 3.16.0S | 3.15.0S | 3.16.1S |
| Dual Rate | | NA | |
| IPv6 Routing: OSPF for IPv6 (OSPFv3) | 3.5.0S | 3.13.0S | 3.16.1S |
| Remote SPAN (RSPAN) | 3.11.0S | 3.14.0S | |
| DHCP Snooping | 3.7.0S | 3.13.0S | 3.18.0SP |
| BFD over TDM Routed | 3.8.0S | 3.14.0S | |
| L2PT - Layer 2 Protocol Tunneling | 3.5.0S | 3.13.0S | 3.16.1S |
| ME3600x-24CX OC3 Port Support | NA | NA | NA |
| ME3600/ME3800: HDLC Support on T1/E1 IM | NA | NA | NA |
| Secure Shell SSH Version 2 Client Support | | 3.13.0S | 3.16.1S |
| EVC Push Rewrite | | | 3.16.1S |
| IPv6 QoS: MQC Packet Classification | 3.6.0S | 3.13.0S | 3.16.1S |
| IPv6 Routing: Static Routing | 3.5.0S | 3.13.0S | 3.16.1S |
| IPv6 Switching: CEF/dCEF Support | 3.5.0S | 3.13.0S | 3.16.1S |
| SNMP over IPv6 | 3.5.0S | 3.13.0S | 3.16.1S |
| ACL Baseline Features support for ME3600/ME3800 | 3.16.1S | 3.16.1S | 3.16.1S |
| Egress Marking Features Baseline set for ME3600/ME3800 | 3.16.1S | 3.16.1S | 3.16.1S |
| Baseline QoS feature LLQ with Policer for ME3600/ME3800 | 3.16.1S | 3.16.1S | 3.16.1S |

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|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Ingress Classification Baseline features for ME3600/ME3800 | 3.16.1S | 3.16.1S | 3.16.1S |
| Flat policy egress support - Baseline qos feature for ME3600/ME3800 | 3.16.1S | 3.16.1S | 3.16.1S |
| Port Shaper support - baseline qos features for ME3600/ME3800 | 3.16.1S | 3.16.1S | 3.16.1S |
| VLAN grouping QoS Baseline features for ME3600/ME3800 | 3.16.1S | 3.16.1S | 3.16.1S |
| Sonet Mode support on OC3 IM | 3.8.0S | 3.14.0S | |
| Channelization support for OC3 IM | 3.7.0S | 3.14.0S | |
| PIM Version 2 | 3.5.0S | 3.13.0S | 3.16.1S |
| BFD Support for Multicast(PIM) | | 3.14.0S | |
| Any Transport over MPLS (AToM): ATM Cell Relay over MPLS: Packed Cell Relay | 3.5.0S | 3.14.0S | |
| Class-based QoS MIB | 3.6.0S | 3.13.0S | 3.16.1S |
| MPLS (Multiprotocol Label Switching) | 3.5.0S | 3.13.0S | 3.16.1S |
| CDP (Cisco Discovery Protocol) Version 2 | 3.5.0S | 3.13.0S | 3.16.1S |
| IPv6 VPN over MPLS (6VPE) | 3.6.0S | 3.13.0S | 3.18.0SP |
| PTP over Native Ethernet | | 3.13.0S | |
| EVC Local Connect | | 3.18.0S | 3.18.0SP |
| IEEE 802.1Q VLAN Support | 3.5.0S | 3.13.0S | 3.16.1S |
| SNMPv3 (SNMP Version 3) | 3.5.0S | 3.13.0S | 3.16.1S |
| Configurable Per VLAN MAC Learning (PVL) | 3.5.0S | 3.13.0S | |
| MPLS LDP - IGP Synchronization | 3.6.0S | 3.13.0S | 3.16.1S |
| Class Based Policing | 3.5.0S | 3.13.0S | 3.16.1S |
| Y.1731 DMMv1 | 3.5.0S | 3.13.0S | 3.18.0S |
| MPLS over POS Support | 3.8.0S | 3.14.0S | |
| QoS Support on POS on OC3 IM | 3.8.0S | 3.14.0S | |

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| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| RSVP - Resource Reservation Protocol | 3.6.0S | 3.13.0S | 3.16.1S |
| Remote Monitoring MIB Update | 3.5.0S | 3.13.0S | |
| Class Based Weighted Fair Queuing (CBWFQ) | 3.5.0S | 3.13.0S | 3.16.1S |
| POS (Packet over SONET/SDH) on OC12 IM card | 3.9.0S | 3.15.0S | |
| QoS on serial TDM interface | 3.9.0S | 3.14.0S | |
| IPv6 ACL | 3.7.0S | 3.13.0S | 3.18.0SP |
| Auto-MDIX | | NA | |
| Port licensing | 3.10.0S | 3.14.0S | |
| PPP | 3.6.0S | 3.14.0S | |
| OC12 Support for HDLC and MLPPP | 3.9.0S | | |
| HSRP support | 3.5.0S | 3.13.0S | 3.16.1S |
| Microwave ACM Signaling and EEM integration | 3.9.0S | 3.13.0S | |
| Microwave ACM Signaling over P2MP Topologies | 3.16.0S | 3.16.0S | |
| SNMPv3 - 3DES and AES Encryption Support | 3.5.0S | 3.13.0S | |
| TACACS+ | 3.5.0S | 3.13.0S | 3.16.1S |
| MPLS Forwarding Infrastructure Scalability | 3.5.0S | 3.13.0S | 3.16.1S |
| STP Syslog Messages | 3.5.0S | 3.13.0S | |
| L2PT - Layer 2 Protocol Tunneling on Trunk Ports | 3.6.0S | 3.13.0S | 3.16.1S |
| IPv6 Routing: Unicast Routing | 3.5.0S | 3.13.0S | 3.16.1S |
| Diffserv Compliant WRED | 3.6.0S | 3.13.0S | 3.16.1S |
| BGP Support for TCP Path MTU Discovery per Session | 3.8.0S | 3.13.0S | 3.16.1S |
| Ethernet Connectivity Fault Management (E-CFM) | 3.5.0S | 3.13.0S | 3.16.1S |
| SNMP (Simple Network Management Protocol) | 3.5.0S | 3.13.0S | 3.16.1S |

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|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Support for dissimilar PHB match at Ingress and Egress for mpls/vpls interface. | 3.11.0S | 3.15.0S | 3.16.1S |
| MPLS VPN - Inter-Autonomous System Support | 3.7.0S | 3.13.0S | 3.16.1S |
| OSPF TTL Security Check | 3.13.0S | 3.13.0S | 3.16.1S |
| DS3 support on OC3 port | 3.11.0S | 3.14.0S | |
| Ethernet Operations, Administration, and Maintenance (OAM) | 3.5.0S | 3.13.0S | 3.16.1S |
| Service Activation | | 3.16.0S | |
| Etherchannel Min-Links | 3.8.0S | 3.13.0S | 3.18.0S |
| IP 16-way Equal-Cost Multipath | 3.5.0S | 3.13.0S | |
| RADIUS | 3.5.0S | 3.13.0S | 3.16.1S |
| Ethernet Local Management Interface (LMI) at Provider Edge (PE) | 3.8.0S | 3.13.0S | 3.16.1S |
| SSO - PPP | 3.6.0S | 3.14.0S | |
| BGP Signaling - VPLS interAS option B | 3.12.0S | | |
| MLPPP - Multilink PPP | 3.6.0S | 3.14.0S | |
| LMM Support for Smart SFP | 3.12.0S | NA | NA |
| DHCP Option 82 Configurable Circuit ID and Remote ID | 3.7.0S | 3.13.0S | |
| MPLS Virtual Private Networks (VPN) | 3.5.0S | 3.13.0S | 3.16.1S |
| DHCP - DHCPv6 Relay Agent notification for Prefix Delegation | 3.6.0S | 3.13.0S | |
| onePK SS: Policy API for QoS Multi-Action Policer | | 3.15.0S | |
| Interfaces MIB: SNMP context based access | 3.5.0S | 3.13.0S | 3.16.1S |
| IEEE 802.1ab LLDP (Link Layer Discovery Protocol) | 3.9.0S | 3.13.0S | 3.16.1S |
| Network Time Protocol (NTP) | 3.12.0S | | 3.16.1S |
| EFP aware QoS | 3.6.0S1 | 3.13.0S | 3.16.1S |
| IEEE 802.1ag (CFM) Support on Port-Channel Interface | 3.6.0S | 3.13.0S | 16.5.1 |

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| FeatureName | RSP1 | RSP2 | RSP3 |
|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Access Circuit Redundancy | 3.10.0S | 3.14.0S | |
| Secure Copy (SCP) | 3.5.0S | 3.13.0S | 3.16.1S |
| ACFC and PFC support on Multilink interface | 3.6.0S1 | 3.14.0S | |
| REP - (Resilient Ethernet Protocol) | 3.5.0S | 3.13.0S | |
| 1 rate 2 color per EVC policer | 3.5.0S | 3.13.0S | 3.16.1S |
| BFD - Static Route Support | 3.5.0S | 3.13.0S | 3.16.1S |
| BFD IPv6 Encaps Support | 3.6.0S | 3.13.0S | |
| IPv6 - Static Route support for BFD over IPv6 | | 3.13.0S | |
| BGP Support for 4-byte ASN | 3.9.0S | 3.13.0S | 3.16.1S |
| EVC 2.0 - Advanced VLAN translations & service mapping based on 802.1ah | 3.5.0S | 3.13.0S | |
| EVC MIB | | 3.13.0S | 3.16.1S |
| Dual Rate Three Color Ingress Policer on Service Instances | 3.5.0S | 3.13.0S | 3.16.1S |
| QoS support for Global Table map | | | |
| Clear Channel ATM | 3.13.0S | 3.18.0S | |
| MST on EVC Bridge-Domain | 3.5.0S | 3.13.0S | 3.16.1S |
| TDM clock recovery | 3.10.0S | 3.14.0S | |
| Autonomic Config Download | | | |
| SLM Over VPLS | 3.16.0S | 3.17.0S | 3.18.0S |
| TSoP Smart SFP -STM1 | 3.14.0S | 3.17.0S | |
| Async RS232 over MPLS | | 3.14.0S | |
| ACL- DSCP Matching | 3.5.0S | 3.13.0S | 3.16.1S |
| ACL - Source & Destination Address Matching | 3.5.0S | 3.13.0S | 3.16.1S |
| E&M over MPLS | NA | 3.17.0S | |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| ACL - IP Protocol | 3.5.0S | 3.13.0S | 3.16.1S |
| Ingress QoS support for Serial Interface | 3.13.0S | | |
| Static MAC binding to EVCs and Psuedowires | 3.7.0S | 3.13.0S | 3.16.1S |
| IP SLAs TWAMP Responder v1.0 | 3.12.0S | 3.13.0S | |
| IEEE 802.1W Spanning Tree Rapid Reconfiguration | | | |
| Modular QoS CLI (MQC) | 3.5.0S | 3.13.0S | 3.16.1S |
| CFM over EFP interface configured with xconnect | 3.6.0S | 3.13.0S | 3.16.1S |
| Resilient Ethernet Protocol-no-edge-neighbour-enhancement | 3.5.0S1 | 3.13.0S | |
| Jumbo Frames | 3.5.0S | 3.13.0S | 3.16.1S |
| IP FRR | 3.6.0S | 3.13.0S | 3.16.1S |
| Synchronous Ethernet Support | 3.5.0S | 3.13.0S | 3.16.1S |
| CEM support on 8 port T1E1 IM | | 3.15.0S | |
| FHRP - HSRP - Hot Standby Router Protocol V2 | | | 3.16.1S |
| PIM Version 2 | 3.5.0S | 3.13.0S | 3.16.1S |
| Ordinary Clock Master | | | 3.16.1S |
| PTP High Jitter Mode | | | 3.16.1S |
| IPv6 Multicast: Multicast Listener Discovery (MLD) Protocol, Versions 1 and 2 | 3.11.0S | 3.15.0S | 3.18.0SP |
| IPv6 Multicast: PIM Sparse Mode (PIM-SM) | 3.11.0S | 3.15.0S | |
| IPv6 Multicast: PIM Source-Specific Multicast (PIM-SSM) | 3.11.0S | 3.14.0S | |
| IPv6 Multicast: PIM Embedded RP Support | 3.11.0S | 3.15.0S | |
| IPv6 Multicast: PIM Accept Register | 3.11.0S | 3.15.0S | |
| PoE Plus (PoE+, PoEP) support | NA | NA | NA |
| Fp init fails with Qos policies and with huge range of BD on TEFP | 3.13.0S | 3.13.0S | 3.16.1S |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Set and police in the same class-map (Ingress and Egress) | 3.10.0S | 3.13.0S | 3.16.1S |
| Egress Port Level Policy with Ingress EFP Level Policy | 3.10.0S | 3.13.0S | 3.16.1S |
| OSPF doesn't come up when PIM is enabled on VPLS core interface | 3.12.0S | 3.13.0S | |
| VRRPv3 Protocol Support | 3.16.0S | 3.14.0S | 3.18.0SP |
| BFD Support for HSRP | 3.8.0S | 3.13.0S | 3.16.1S |
| L2VPN Static to Dynamic PW Interconnection & PW Preferred Path for MPLS-TP Tunnels | 3.5.0S | 3.13.0S | |
| MPLS-TP: PW Redundancy for Static PWs | 3.5.0S | 3.13.0S | |
| MPLS-TP: MS-PW with Static and Dynamic PW Support | 3.6.0S | 3.13.0S | |
| L2VPN: PW Status for Static PWs | 3.5.0S | 3.13.0S | |
| Bidirectional MPLS-TP LSP | 3.5.0S | 3.13.0S | |
| MPLS-TP Path Protection | 3.5.0S | 3.13.0S | |
| MPLS-TP OAM: GACH | 3.5.0S | 3.13.0S | |
| MPLS-TP OAM: Continuity Check via BFD | 3.5.0S | 3.13.0S | |
| MPLS-TP OAM: Ping/Trace | 3.5.0S | 3.13.0S | |
| MPLS-TP OAM: Fault Management | 3.5.0S | 3.13.0S | |
| BFD - BFD Hardware Offload Support | 3.5.0S | 3.13.0S | 3.16.1S |
| Kerberos V Client Support | | | 3.16.1S |
| Unicast Reverse Path Forwarding (uRPF) | 3.6.0S | 3.13.0S | 3.16.1S |
| CFM Extension for 1+1 Hot-Standby Support | 3.5.0S | 3.13.0S | 3.16.1S |
| VPLS over MPLS-TP | 3.5.0S | 3.13.0S | |
| MPLS-TP: LDP signaling over MPLS TP LSPs | 3.5.0S | 3.13.0S | |
| MPLS-TP: IP addresses for MPLS TP interfaces | 3.5.0S | 3.13.0S | |
| MPLS TP: IP-less configuration of MPLS TP tunnels | 3.5.0S | 3.13.0S | |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Any Transport over MPLS (AToM): Layer 2 QoS (Quality of Service) | 3.7.0S | | |
| Callhome V2 enhancements | 3.13.0S | 3.13.0S | 3.16.1S |
| Call Home V3 | | 3.13.0S | |
| BGP - MP-iBGP NSR | 3.6.0S | 3.13.0S | 3.16.1S |
| Cisco-BGP-MIBv2 | 3.5.0S | 3.13.0S | 3.16.1S |
| Trunk EFP support | 3.5.0S | 3.13.0S | 3.16.1S |
| MVPN | 3.9.0S | 3.17.0S | 16.5.1 |
| CSL (Cisco Secure Licensing Support) | 3.5.0S | 3.13.0S | |
| BFD: BGP multihop client Support (IPv4/IPv6) | 3.7.0S | 3.13.0S | |
| BGP: Gracefull Shutdown (GSHUT) | 3.7.0S | 3.13.0S | 3.16.1S |
| MFI -Extended LFA | 3.7.0S | 3.13.0S | 3.16.1S |
| MAC Limiting per VFI and BD | 3.7.0S | 3.13.0S | |
| CFM Support on Trunk EFP | 3.9.0S | 3.13.0S | 3.16.1S |
| Link Path Through | 3.7.0S | 3.13.0S | 3.16.1S |
| Spanning Tree Protocol (STP) | | | 3.16.1S |
| Static VPLS over MPLS-TP | 3.6.0S | 3.13.0S | |
| MPLS-TP MIB | 3.8.0S | 3.13.0S | |
| MPLS -TP: IP Less trace support (Nodeld, LinkId) | 3.8.0S | 3.13.0S | |
| VPLS BGP Signaling | 3.8.0S | 3.13.0S | 3.17.0S |
| Y.1731 enhancements (On-demand & Concurrent support) | 3.8.0S | 3.13.0S | 3.18.0S |
| MFI - VPLS BGP sig | 3.8.0S | 3.13.0S | 3.17.0S |
| Unicast Reverse Path Forwarding (uRPF) Loose mode | 3.8.0S | 3.13.0S | 3.16.1S |
| uRPF for IPv6 (Strict and Loose mode) | | 3.16.0S | |
| IS-IS Support for BFD over IPv6 | 3.8.0S | 3.13.0S | |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| QoS: CBQoS Management - Policy-to-Interface Mapping Support | 3.6.0S | | |
| BGP PIC (edge & core) - for RFC-3107 labeled iBGP | 3.8.0S | 3.13.0S | 3.16.1S |
| QoS Classification based on EFP | 3.9.0S | 3.13.0S | 3.16.1S |
| BD and CFM Protocol Based New CLI Model | 3.7.0S | 3.13.0S | 3.16.1S |
| Offloading IPv4 Async BFD sessions with 3.3ms timers | 3.8.0S | 3.13.0S | 3.16.1S |
| QoS: Global CLI for CoS to EXP table mapping | 3.9.0S | 3.13.0S | |
| L2VPN Protocol Base CLIs | 3.9.0S | 3.13.0S | |
| MPLS -TP: Linear Protection/PSC support | 3.9.0S | 3.13.0S | |
| QoS support for dataplane loopback for EFP | 3.11.0S | 3.15.0S | |
| BFD Debug Enhancement | 3.10.0S | 3.13.0S | 3.17.0S |
| BFD Deterministic Hardware Offload | 3.10.0S | 3.13.0S | 3.16.1S |
| Remote LFA FRR and labeled BGP FRR integration | 3.10.0S | 3.13.0S | 3.16.1S |
| Pseudowire Group Switchover | 3.10.0S | 3.13.0S | 3.16.1S |
| Auto-IP | 3.10.0S | 3.13.0S | 3.16.1S |
| TCAM threshold based alarms | 3.11.0S | 3.14.0S | |
| Onboard Failure Logging | 3.7.0S | | |
| Secure Boot Support | | 3.13.0S | 3.16.1S |
| VPLS over remote LFA | 3.10.0S | 3.13.0S | |
| Access Circuit Redundancy | 3.12.0S | | |
| Autoroute announce and forwarding adjacencies for OSPFv3 over IPv4 TE tunnels | 3.12.0S | 3.13.0S | |
| Control Plane Security (CoPP) | | 3.14.0S | |
| REP-AG Enhancements | 3.13.0S | 3.13.0S | |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Prefix Independent Convergence with Fast Re-Route Over Bridge Domain Interface | 3.11.0S1 | 3.13.0S | 3.16.1S |
| Routed Pseudo-Wire and Routed VPLS | NA | 3.15.0S | |
| WAN mode support | 3.6.0S | 3.13.0S | |
| CFM Support for Cylon ASIC with integrated OAM HW offload | NA | 3.13.0S | 3.16.1S |
| SSO - BFD | 3.5.0S | 3.13.0S | 3.16.1S |
| PIM DR Loadbalancing | 3.13.0S | 3.13.0S | |
| PTP-SYNCE on 10G interface in WANPHY mode | 3.10.0S | 3.13.0S | 3.16.1S |
| eCPU & FPGA stats | NA | 3.13.0S | NA |
| EFP policers without Ingress TCAM consumption | | 3.14.0S | NA |
| Enhanced Tracking Support / Enhanced Object Tracking / EOT | 3.9.0S | 3.13.0S | |
| Source Specific Multicast (SSM) Mapping | 3.5.0S | 3.13.0S | 3.16.1S |
| DAI (Dynamic ARP Inspection) | 3.7.0S | 3.13.0S | |
| QoS - Service Policies on Aggregate GEC | | | NA |
| EVC QoS | | | 3.16.1S |
| Field Programmable Device Upgrade Tool | 3.5.0S | 3.13.0S | 3.16.1S |
| Virtual Private LAN Services (VPLS) | 3.5.0S | 3.13.0S | 3.17.0S |
| IS-IS Support for BFD over IPv4 | 3.5.0S | 3.13.0S | 3.16.1S |
| OSPF Support for BFD over IPv4 | 3.5.0S | 3.13.0S | 3.16.1S |
| IPv6 SDM Template | | | NA |
| Access Switch Device Manager (SDM) Template - Default | 3.10.0S | 3.13.0S | NA |
| Access Switch Device Manager (SDM) Template - IP & Video | 3.11.0S | 3.13.0S | NA |
| MQC - Multi-Level Priority Queue | 3.7.0S | 3.13.0S | 3.16.1S |
| BFD Echo Mode | 3.9.0S | 3.13.0S | |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| IS-IS - MPLS LDP Autoconfiguration | 3.6.0S | 3.13.0S | 3.16.1S |
| VPLS Autodiscovery, BGP based | 3.6.0S | 3.13.0S | 3.17.0S |
| LACP 1-1 redundancy with fast switchover | 3.8.0S | 3.13.0S | 3.18.0S |
| Multichassis LACP (mLACP) | 3.10.0S | 3.15.0S | 16.5.1 |
| Service Groups | 3.11.0S | | |
| BGP Support for BFD | 3.5.0S | 3.13.0S | 3.16.1S |
| CISL - SNMP Support | | | 3.16.1S |
| 4293 IP-MIB (IPv6 only) and RFC 4292 IP-FORWARD-MIB (IPv6 only) | 3.6.0S | 3.13.0S | 3.16.1S |
| H-VPLS N-PE Redundancy for MPLS Access | 3.6.0S | 3.13.0S | 3.17.0S |
| Label Switched Multicast (LSM) Multicast Label Distribution Protocol (mLDP) based Multicast VPN (mVPN) support | | 3.15.0S | 16.5.1 |
| VPLS MAC Address Withdrawal | 3.5.0S | 3.13.0S | 3.17.0S |
| MPLS TE - Bundled Interface Support (EtherChannel and MLP) | 3.6.0S | 3.13.0S | |
| MAC Address Limiting on Service Instance / Bridge Domain | 3.5.0S | 3.13.0S | |
| L2 ACL on Service Instance on Port-channel | 3.6.0S | 3.13.0S | 3.16.1S |
| MAC Address Security for EVC Bridge-Domain | 3.7.0S | 3.13.0S | 16.5.1 |
| Qos EVC Push Rewrite | | 3.15.0S | 3.16.1S |
| Label Switched Multicast Point-to-Multipoint Traffic Engineering | | 3.15.0S | |
| NSR - LDP Support | 3.16.0S | 3.15.0S | |
| Hop-by-Hop BC in a ring with master/slave role reversal | 3.16.0S | 3.15.0S | |
| BGP PIC Edge/Core VPNv6 | | 3.15.0S | |
| ACL - ICMP Code | 3.5.0S | 3.13.0S | 3.16.1S |
| DHCP Server v6 | | 3.15.0S | |
| IPv6 DHCP Client | | 3.15.0S | |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| BCP Support over MLPPP | | 16.5.1 | |
| IKE Security Protocol | | | 3.18.0SP |
| IPSec Triple DES Encryption (3DES) | | | 3.18.0SP |
| Encrypted Pre-shared Key | | | 3.18.0SP |
| Advanced Encryption Standard (AES) | | | 3.18.0SP |
| IKE Mode Configuration | | | 3.18.0SP |
| Multicast Source Discovery Protocol (MSDP) | 3.5.0S | 3.13.0S | |
| MPLS OAM Support for Multisegment Pseudowires | 3.5.0S1 | 3.13.0S | 3.16.1S |
| Static MAC binding to EVCs and Pseudowires | 3.7.0S | 3.13.0S | 3.16.1S |
| BGP PIC Edge for IP/MPLS | 3.6.0S | 3.13.0S | 3.16.1S |
| GNSS receiver support | NA | NA | 3.17.0S |
| UniDirectional Link Detection (UDLD) | 3.13.0S | 3.14.0S | 3.16.1S |
| Policy-Based Routing (PBR) | | 3.16.0S | |
| PTP Hybrid BMCA | | 3.15.0S | 3.18.0S |
| QoS Priority Propagation in Multi-level Scheduler | | 3.15.0S | |
| IEEE 802.1Q Custom Ethertype | | 3.15.0S | 3.18.0SP |
| VRRPv3 High Scale | | 3.15.0S | |
| Hierarchical Color-Aware Policing | | 3.15.0S | |
| 8 path ECMP | 3.16.0S | 3.16.0S | |
| Support sending PW Grouping ID TLV | | 3.16.0S | |
| Image Signing | | 3.16.0S | 3.16.1S |
| Priority Queuing - Shaper support | | 3.16.0S | 3.16.1S |
| Segment Routing - ISIS v4 node SID | 3.16.0S | 3.16.0S | |
| Phase profile G8275.1 | NA | 3.18.0S | 3.18.0SP |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Phase profile G8273.2 | NA | 3.18.0SP | 3.18.0SP |
| FlexLSP base functionality | NA | 3.18.0SP | 3.18.0SP |
| VLAN Scale Convergence | | 3.17.0S | |
| Ethernet Fault Detection | | 3.17.0S | |
| Qos Support for VLAN Translation | | 3.17.0S | |
| CFM over CVLAN | | 3.17.0S | |
| MLDP Extranet | | 3.17.0S | |
| MPLS-TE over BDI | | 3.17.0S | |
| POS APS on OC3 IM card | | 3.17.0S | |
| BGP PIC + TDM | 3.17.0S | 3.18.0S | |
| L3 Security ACL for EVC support | | 3.17.0S | |
| IPV6 MVPN with MLDP | | 3.18.0S | 16.5.1 |
| BGP PIC + TE | 3.18.0S | 3.18.0S | |
| Circuit Emulation over UDP on A900-IMA32D | | 3.18.0S | |
| Discard class based WRED | | | 3.18.0S |
| Netflow with EFP support | | 3.18.0SP | |
| PPPoE Intermediate Agent | | 3.18.0S | |
| Asymmetric EFP | | 3.18.0S | |
| EVPN VPWS | | 3.18.0S | |
| Ethernet loopback for untagged/default | | 3.18.0S | |
| 8K EFP per box (rsp3) + 4K EFP per port | | | 3.18.0SP |
| OTN Wrapper on Ethernet cards: 2x10GE, 1x10G+8x1G | | | 3.18.0SP |
| Differential clock recovery on 9xOCn IM interfaces | | | 3.18.0SP |
| Differential clock recovery on DSx interfaces | | | 3.18.0SP |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|---|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| APS support on 9xOCn IM | | | 3.18.0SP |
| DCC support on 9xOCn IM | | | |
| MQC - Hierarchical Service-Policy Map Infrastructure | | | 3.18.0SP |
| Evolved Manageability Data Model Mapping and Infrastructure Support on RSP2 | | 3.18.0S | |
| Evolved Manageability Additional Data Model Mapping Infrastructure and Platform Support | | 3.18.0S | |
| STM-4 TSoP | | 3.18.0S | |
| L2VPN over IP/MPLS support | | | 3.18.0SP |
| SONET support on 9xOCn IM | | | 3.18.0SP |
| DS1 support on 48 port DS1/E1 IM | | | 3.18.0SP |
| DS3 support on 48 port DS3 IM | | | 3.18.0SP |
| QoS support on CEMoMPLS | | | 3.18.0SP |
| Circuit emulation support on 48xDS1/E1 IM | | | 3.18.0SP |
| Loopback and BERT support on DSx IMs | | | 3.18.0SP |
| Circuit emulation support on 9xOCn IM | | | 3.18.0SP |
| Circuit emulation support on 48 port DS3/E3 IM | | | 3.18.0SP |
| Adaptive clock recovery on 9xOCn IM interfaces | | | 3.18.0SP |
| Adaptive clock recovery support on DSx interfaces | | | 3.18.0SP |
| DS3 Channelization | | | 3.18.0SP |
| OTN Wrapper on Combo Ethernet card:1x10GE + 8 GE | | | 3.18.0SP |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| DS3 MDL support | | | 3.18.0SP |
| ONS pluggable optics support on OCn interfaces | | | 3.18.0SP |
| Alarm history and TL1 timestamping on OCn interfaces | | | 3.18.0SP |
| Qos LACP Activ/Standby | | | 3.18.0SP |
| SSM Support on Legacy Ocx | | 3.18.0SP | 3.18.0SP |
| PW Redundancy with Uni-directional Active-Active | 3.18.1SP | 3.18.1SP | |
| G.8275.1 | | | 3.18.1SP |
| WAN Phy | | | 3.18.1SP |
| VPLS with BDI/PC | | | 3.18.1SP |
| C37.94 | | 3.18.1SP | |
| Port Licensing | | | 3.18.1SP |
| G.8275.2 | | 16.5.1 | 16.5.1 |
| IPv6 QoS | | | 16.5.1 |
| FAT Pseudowire | | | 16.5.1 |
| | | | 16.5.1 |
| | | | |
| Egress Shaping on MLPPP Bundle | | 16.5.1 | |
| Egress QoS Support on MLPPP Bundle (Strict Priority Queuing) | | 16.5.1 | |
| 1G on 8x10G IM | | | 16.5.1 |
| 100G IM OTN | | | 16.5.1 |
| Flex LSP Phase-2 | | 16.5.1 | 16.5.1 |
| UPSR | | | 16.5.1 |
| Two Level PHB scheduling at egress | | | 16.5.1 |
| 5G XFI | | | 16.5.1 |

Feature Compatibility Matrix for Cisco ASR 900 Series Aggregation Services Routers

| FeatureName | RSP1 | RSP2 | RSP3 |
|--|-------------------|-------------------|-------------------|
| | Supported Release | Supported Release | Supported Release |
| Adaptive Clock Recovery (ACR) for 8 T1/E1 - only for CEM over MPLS | | 16.5.1 | |
| AINS Phase 1 | | | 16.5.1 |
| E1 support on T1E1 card | | | 16.5.1 |
| E3 support on T3E3 card | | | 16.5.1 |

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.