Release Notes for Cisco ASR 901 Series Aggregation Services Router for Cisco IOS Release 15.5(2)S

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This release notes is for the Cisco ASR 901 Series Aggregation Services Router for Cisco IOS Release 15.5(2)S and contains the following sections:

Introduction

The Cisco ASR 901 Series Aggregation Services Router is a cell-site access platform specifically designed to aggregate and transport mixed-generation radio access network (RAN) traffic. The router is used at the cell site edge as a part of a 2G, 3G, or 4G RAN.

The Cisco ASR 901 router helps enable a variety of RAN solutions by extending IP connectivity to devices using Global System for Mobile Communications (GSM), General Packet Radio Service (GPRS), Node Bs using High Speed Packet Access (HSPA) or Long Term Evolution (LTE), base transceiver stations (BTSs) using Enhanced Data Rates for GSM Evolution (EDGE), Code Division Multiple Access (CDMA), CDMA-2000, EVDO, or WiMAX, and other cell-site equipment.

It transparently and efficiently transports cell-site voice, data, and signaling traffic over IP using traditional T1 and E1 circuits, as well as alternative backhaul networks such as Carrier Ethernet and DSL, Ethernet in the First Mile (EFM), and WiMAX. It also supports standards-based Internet Engineering Task Force (IETF) Internet protocols over the RAN transport network, including those standardized at the Third-Generation Partnership Project (3GPP) for IP RAN transport. Custom designed for the cell site, the Cisco ASR 901 router features a small form factor, extended operating temperature, and cell-site DC input voltages.

Table 1 lists the Cisco ASR 901 1G Router model versions.

Table 1 Cisco ASR 901 1G Router Models

Power Source	TDM + Ethernet Version	Ethernet Version
DC Power	• A901-12C-FT-D • A901-4C-FT-D	• A901-12C-F-D • A901-4C-F-D
AC Power	• none	• none

Table 2 lists the Cisco ASR 901 10G Router model versions.

Table 2 Cisco ASR 901 10G Router Models

Power Source	TDM + Ethernet Version	Ethernet Version
DC Power	• A901-6CZ-FT-D	• A901-6CZ-F-D • A901-6CZ-FS-D
AC Power	• A901-6CZ-FT-A	• A901-6CZ-F-A • A901-6CZ-FS-A

Note Some of the Cisco ASR 901 models have port based licensing. For more details, see the Licensing chapter in Cisco ASR 901 Series Aggregation Services Router Software Configuration Guide.

System Specifications and Memory Details

Table 3 lists the supported system configurations and memory details for the Cisco ASR 901 router:

Table 3 Cisco IOS Release 15.5(2)S Memory Details

Platform	Software Image	Flash Memory	DRAM Memory	Runs From
Cisco ASR 901 Series Aggregation Services Router TDM version	asr901-universalk9-mz	128 MB	512 MB	RAM

Table 3 Cisco IOS Release 15.5(2)S Memory Details

Platform	Software Image	Flash Memory	DRAM Memory	Runs From
Cisco ASR 901 Series Aggregation Services Router, Ethernet version	asr901-universalk9-mz	128 MB	512 MB	RAM
Cisco ASR 901 Series Aggregation Services Router, IPsec enabled Ethernet version	asr901sec-universalk9.mz	256 MB	512 MB	RAM

Determining the Software Version

To determine the image and version of Cisco IOS software running on your Cisco ASR 901 router, log in to the router and enter the **show version** command in the EXEC mode:

The following example shows output from Cisco ASR 901 router that supports normal IOS software.

```
Router> show version

Cisco IOS Software, 901 Software (ASR901-UNIVERSALK9-M), Version 15.5(2)S, RELEASE
SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2015 by Cisco Systems, Inc.
Compiled Fri 20-Mar-15 00:44 by prod_rel_team

ROM: System Bootstrap, Version 15.5(2r)S, RELEASE SOFTWARE (fc1)
```

The following example shows output from Cisco ASR 901 Series Aggregation Services Router, IPsec enabled Ethernet version.

```
Router> show version

Cisco IOS Software, 901 Software (ASR901-UNIVERSALK9-M), Version 15.5(2)S, RELEASE
SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2015 by Cisco Systems, Inc.
Compiled Fri 20-Mar-15 00:44 by prod_rel_team

ROM: System Bootstrap, Version 15.5(2r)S, RELEASE SOFTWARE (fc1)
```

New and Changed Information

New Hardware Features in Release 15.5(2)S

There are no new hardware features in this release.

New Software Features in Release 15.5(2)S

The following features are supported from this release.

Call Home

The Call Home feature can deliver messages containing information on configuration, inventory, syslog, snapshot, environmental, and crash events. It provides these messages as either email-based or web-based messages.

For more information about this feature, see *Call Home* feature guide at the following URL:
http://www.cisco.com/c/en/us/td/docs/wireless/asr_901/Configuration/Guide/b_asr901-scg/b_asr901-scg_chapter_0110101.html

ICMP-based ACL

The ICMP-based ACL feature provides classification based on ICMP message type and message code to filter the traffic. This feature forms part of ACL-based QoS and is implemented for both IPv4 and IPv6.

For more information about this feature, see *Configuring QoS* feature guide at the following URL:
http://www.cisco.com/c/en/us/td/docs/wireless/asr_901/Configuration/Guide/b_asr901-scg/b_asr901-scg_chapter_011000.html

Generic Routing Encapsulation

Generic Routing Encapsulation (GRE) is a tunneling protocol developed by Cisco Systems that encapsulates a wide variety of network layer protocols inside virtual point-to-point links over an Internet Protocol internetwork.

For more information about this feature, see *Generic Routing Encapsulation* feature guide at the following URL:
http://www.cisco.com/c/en/us/td/docs/wireless/asr_901/Configuration/Guide/b_asr901-scg/b_asr901-scg_chapter_0110100.html

Policy-based Routing

Policy-based routing is a process whereby the device puts packets through a route map before routing them. The route map determines which packets are routed to which device next.

For more information about this feature, see *Policy-based Routing* feature guide at the following URL:
http://www.cisco.com/c/en/us/td/docs/wireless/asr_901/Configuration/Guide/b_asr901-scg/b_asr901-scg_chapter_0110011.html

PTP over VLAN

This release introduces support for VLAN interface (with DHCP assigned IP or static IP) on PTP.

For more information about this feature, see *Configuring Clocking* feature guide at the following URL:
https://www.cisco.com/c/en/us/td/docs/wireless/asr_901/Configuration/Guide/b_asr901-scg/b_asr901-scg_chapter_010110.html

Y1731 DMM over Xconnect

This release introduces support for Y1731 Two Way ETH-DM on Xconnect (EoMPLS).

For more information about this feature, see *ITU-T Y.1731 Performance Monitoring* feature guide at the following URL:
http://www.cisco.com/c/en/us/td/docs/wireless/asr_901/Configuration/Guide/b_asr901-scg/b_asr901-scg_chapter_01011.html

Modified Software Features in Release 15.5(2)S

There are no modified features in this release.

Supported Hardware

For a complete list of SFP modules supported on the Cisco ASR 901 Series Routers, see the *Cisco ASR 901 Series Aggregation Services Routers data sheet* at:
http://www.cisco.com/c/en/us/products/collateral/routers/asr-901-series-aggregation-services-routers/data_sheet_c78-686453.html

Important Notes

- The console input buffer size is increased from 2000 bytes to 30,000 bytes from this release. Now, you can copy and paste configuration up to 30,000 bytes in size on the console.
- The ROMMON auto-upgrade occurs only when the bundled ROMMON has a higher version. The ROMMON upgrade cannot be disabled by using the “AUTO_UPGRADE_ROMMON=FALSE” or “AUTO_UPGRADE_ROMMON_V2=FALSE” flags or by using the **upgrade rom-monitor preference autoupgrade disable** command. This is to ensure that the device always upgrade to the latest ROMMON.
- The MCU is designed in such a way that if the temperature falls below ambient conditions, the fans will not work.
- 10G SFPs inserted into 1GE port provides 1GE speed.
- 10G SFPs inserted into 10GE port without a valid license provides only 1GE speed.
- 100M SFP works only with **no negotiation auto** command.
- If 1G SFP is used to connect a 10G port to a 1G port, you do not have to explicitly configure the **no negotiation auto** command to bring up the link.
- The auto-select feature is supported on 100M SFPs. However, this feature is not supported on combo ports.
- Remote Fault Indication feature is not applicable for 1G mode in 10GE ports. It applies only to 10G mode in 10GE ports.

Note For information on how to configure SFPs, see the Cisco ASR 901 Series Aggregation Services Router Software Configuration Guide.

Supported MIBs

To see the list of MIBS supported on this release, go to the following URL and search using the Image Name: http://tools.cisco.com/ITDIT/MIBS/MainServlet

Caveats

Caveats describe unexpected behavior in Cisco IOS software releases. Severity 1 caveats are the most serious caveats, severity 2 caveats are less serious, and severity 3 caveats are the least serious of these three severity levels. Only select severity 3 caveats are listed.

This section contains the following topics:

Bug Search Tool

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

Use the following link to access the tool: https://tools.cisco.com/bugsearch/search

You will be prompted to log into Cisco.com. After successful login, the Bug Search Tool page opens. Use the Help link in the Bug Search Tool to obtain detailed help.

Open Caveats

This section provides information about the open caveats for the Cisco ASR 901 router running Cisco IOS Release 15.5(2)S.

Bug ID	Description
CSCsd58192	Multicast MAC entry is formed on a Layer 2 VLAN without a querier.
CSCtn71094	The **no interface vlan 1** command deletes VLAN 1.
CSCtn79746	The **show ethernet service instance statistics** command is not displaying any statistics.
CSCtr05566	The Multiprotocol Label Switching (MPLS) traffic fails when port channel encapsulation is not equal to the bridge domain on the core.
CSCtr70228	High CPU utilization is observed while performing save or copy operation.
CSCts66081	Ingress VLAN translation failure occurs when entries exceed 3000.
CSCts80090	The reserved VLANs are not blocked on the router.
CSCts84679	The circuit emulation (CEM) interface displays wrong configuration in the **show running-configuration** command output, when pw-class is configured.

Bug ID	Description
CSCts85484	Traceback occurs after executing **rep preempt segment segid** command.
CSCtw52497	The interface drops all ingress packets when you reload the router with write, erase, and copy the saved configuration to the running configuration.
CSCtw69021	Maximum bandwidth guarantee for Multilink Point-to-Point Protocol (MLPPP) interface is not working for 64-byte size frames in Low Latency Queuing (LLQ).
CSCtx12366	The servo is accepting more than 64PPS Sync in static unicast.
CSCtx22010	SyncE is not supported for the Copper SFPs: GLC-T and SFP-GE-T
CSCtx54735	High CPU utilization and traceback is observed while doing copy and paste of 16 E1 controllers unconfigurations.
CSCtx77374	Input errors are increasing when serial interface flaps. This issue is observed on a serial interface that is part of a multilink interface, when keepalive is disabled.
CSCty95886	The file copy function is not detecting errors properly.
CSCtz38207	Router is rebooting continuously due to failed fans.
CSCtz48755	The write operation triggers the flaps for Hot Standby Router Protocol (HSRP). We recommend the use of minimum 1 sec (or above) hello timer for HSRP and Virtual Redundancy Router Protocol (VRRP). With this configuration, we support a maximum of 50 sessions.
CSCtz69403	IPv6 traffic is not getting dropped with link-local as source address.
CSCua19178	Packet drops are seen with IPv6 fragmentation.
CSCua34320	The OSPFv3 keeps old router-id even after changing the loopback address.

CSCua34389	Manual tunnel having MPLS configuration with dynamic option in the following sequence does not set up targeted ldp session resulting in tunnel staying down. shut/no shut of the tunnel brings back the targeted Label Distribution Protocol (LDP) session up.
	`interface Tunnel108`
	`ip unnumbered Loopback0`
	`mpls label protocol ldp`
	`mpls ip`
	`tunnel source Loopback0`
	`tunnel destination 36.36.36.36`
	`tunnel mode mpls traffic-eng`
	`tunnel mpls traffic-eng path-option 1 dynamic`
	The issue is not observed when tunnel mode is configured ahead of tunnel destination.

CSCua40707	The commands related to MPLS and MPLS-TE/FRR are applicable only to SVI interfaces though they can be enabled globally. Configuring MPLS commands on GigabitEthernet interface or port-channel is not supported.
CSCua49491	The MPLS traffic engineering counters are not supported.
CSCua51628	The OSPFv3 bidirectional forwarding detection (BFD) flaps after an interface is shut in a port-channel bundle.

Bug ID	Description
CSCua81678	The following error message is displayed for /128 prefix: “Reached Maximum Number of IPv6 Hosts”.
CSCua84571	Load balancing is not working with different streams having symmetrical addresses.
CSCua88693	The **verify** command is not supported for the USB flash in the Cisco ASR 901 10G router.
CSCua98165	The IPv6 BFD packets should be mapped to Queue 6 on egress interface.
CSCua99910	MAC address table (MAC learning) failures can be seen with more than 31000 MAC Addresses in certain conditions. So it is safe to assume the platform supports 31000 MAC addresses.
CSCub12715	The “pura_cef_ipv6_route_create_update:Reached Maximum Number of Prefixes supported by platform.Additional Prefixes will not be programmed” message is displayed when the primary path is shut/unshut in a redundant convergent setup.
CSCub71746	Alarm Indication Signal (AIS) is visible momentarily at T1 controller of CE1 while reverting back to primary.
CSCuc15639	Connectivity Fault Management (CFM) is not supported with 100 ms interval.
CSCuc22630	The router fails to recognize USB when its removed immediately after insertion.
CSCuc25878	The UBR transmits at a lower rate when all five class of service (CoS) Private Virtual Circuits (PVCs) are configured.
CSCuc39560	IPv6 traffic drop occurs globally when IPv4 VRF is configured on the same SVI with **ip vrf definition**.
CSCuc85033	The untagged Ethernet Virtual Circuit (EVC) port is not supported for spanning tree.
CSCuc95900	Traffic is receiving two VLAN tags, instead of three for QinQ with pop 2.
CSCud05125	In traffic generator, the receiver (Rx) counter is incrementing even after the EVC mismatch.
CSCud14278	Border Gateway Protocol (BGP) flap is observed between PEs when traffic from CE side is oversubscribed towards PE.
CSCud16558	High convergence time is observed when “shut” operation is performed on fast re-route (FRR) configured with port channels. This issue can be resolved with BFD.
CSCud20997	The Ethernet Over MPLS (EoMPLS) pseudowire redundancy fails when backup pseudowire is active in TE-FRR backup path.
CSCud24655	CPU hog is observed when primary path is “shut” in an LFA FRR set up with 1000 prefixes.
CSCud29184	The **show version** command is not giving the image name when the boot system variable is set as: **boot system flash** *image-name*.
CSCud32961	Error occurs when any label entry is crossing the 3500 range.
CSCud37655	The xconnect MTU is not used for traffic filtering.

Bug ID	Description
CSCud71334	The mac-address flap control is putting all ports into “err-disabled” state, in some cases.
CSCud75293	The **show rom-monitor** command is not showing upgraded ROMMON version in IOS mode.
CSCud79202	The **show inventory** command is displaying the PID of SFP-SX-MM as GLC-SX-MM.
CSCud89083	The router displays “soc_counter_sync: counter thread not responding” error, under heavy CPU usage.
CSCue45003	ASR901 strom control filter does not support current counters value in **show storm** output.
CSCue54634	Traffic outage and pstorm errors are observed when port channel is configured and unconfigured multiple times.
CSCuf21682	High reconvergence is observed for global traffic in Remote Loop Free Alternate (RLFA).
CSCuf48503	Higher latency is observed for middle priority queue.
CSCuf49860	Configuration of backup peer on primary xconnect, after bringing up remote peer backup results in flap.
CSCug61006	Auto-select is not working on the Gigabit Ethernet (0/4) port. For combo ports, shutdown or no shutdown on the interface is mandatory while changing the media type from RJ45 to auto-select and auto-select to RJ45 respectively.
CSCug91477	Strom control filter for the port channel does not show the discarded counters.
CSCug92777	On Layer 3, multicast traffic are punted to CPU even when storm control drops all the packets.
CSCuh54827	Layer 2 control protocol forwarding and tunneling is not following the Spanning Tree Group (STG) states updated by Resilient Ethernet Protocol (REP)/Multiple Spanning Tree Protocol (MSTP).
CSCuh69916	The ASR 901 router does not support Multicast Route entry based counters.
CSCuh81074	The output of **show ip mroute active** and **show ip mfib active** commands are showing incorrect traffic rate.
CSCuh84139	The ASR 901 router is experiencing very high Fast Reroute (FRR) cutover downtime when port-channel core-facing interface is down.
CSCui28984	If the accept interface and forward interface are in the same BD, multicast traffic is not forwarded.
CSCui35642	Multicast traffic is getting forwarded based on physical interface MTU instead of SVI MTU.
CSCui85659	Layer 2 control packets (Tx) cannot be spanned.
CSCui88126	“ReachedMaximumNumberIPv6 Hosts” error message and traceback is observed on core link flap. The ASR901 router allows lesser than MAX Multicast Routes due to HASH COLLISION LIMITATION in certain Source and Group Combination.

Bug ID	Description
CSCuj49502	Multiprotocol Label Switching (MPLS) EXP classification is not working in P router for plain IP, L2VPN and L3VPN traffic flowing from one Ingress MLPPP to another Egress MLPPP/Egress GigabitEthernet.
CSCuj65823	Router console session or telnet session hangs after deleting IMA group.
CSCuj86953	Static NAT entries are not created in the translation table unless there is traffic for that translation.
CSCuj90830	BFD flap is observed in LHR while sending traffic for same group from 100 different sources.
CSCuj97560	The EntityMIB is showing wrong entry for entPhysicalContainedIn for T1/E1 ports.
CSCuj99184	Router receives duplicate traffic as it fails to trigger PIM assert.
CSCul04332	Unknown IP multicast packet flooding is observed when snooping is enabled.
CSCul06056	All config-reg values are accepting “break”.
CSCul12225	On a 10G router, when 10G interface is used in 1G mode, traffic switching from one member of port-channel to another takes more time.
CSCul14767	Process thrashing on IP multicast table shows 300 groups.
CSCul22030	Duplicate traffic is received for sometime on the receiver which is directly connected on RP after RPF shut/no-shut operation.
CSCul41152	Layer 3 traffic drop is observed after REP preemption, in REP setup with VLAN load balancing (VLB).
CSCul58461	IGMPv3 Snooping Explicit Host Tracking (EHT) is not working.
CSCul60965	Internet Security Association and Key Management Protocol (ISAKMP) profile is not working with inside global address from outside.
CSCul67908	Internet Group Management Protocol (IGMP) snooping cannot be enabled on specific BDs.
CSCul71854	Traceback is observed at REP LSL Hello PP Process while trying to replace the configuration with G8032 configuration saved in the flash memory.
CSCum04946	For Internet Key Exchange Version 2 (IKEv2), though the tunnel is coming up, the traffic fails to pass through the IPsec tunnel.
CSCum09333	Multicast traffic is looped by Protocol Independent Multicast (PIM) rendezvous point (RP) if traffic is received on a different VLAN.
CSCum09471	Traffic drop is observed on other receiver in the scale scenario. When leave is sent from the host connected on DR side, drop occurs on receiver connected on querier.
CSCum20414	High convergence numbers are observed for multicast traffic when Remote Loop-free Alternate (RLFA) - Fast Reroute (FRR) is configured.
CSCum23734	G8032 is not notified for Connectivity Fault Management (CFM) error when static remote MEP (RMEP) is configured.
CSCum40529	Traffic is not flooded to other interface when IGMP report is stopped on one interface.
CSCum40606	Layer 3 convergence is taking more than 200ms with G.8032.

Bug ID	Description
CSCum43027	For IGMP and MLD snooping, the PIM neighbourship flaps when Resilient Ethernet Protocol (REP) is configured and *pim query-interval* is set to a value of 1.
CSCum48108	Convergence is taking more time with LFA-FRR on local shut of BFD enabled path.
CSCum53244	High CPU usage is observed after configuring multiple segments on the same router with REP Edge No-Neighbor configuration.
CSCum53280	IPsec traffic is not getting encrypted, if Authentication Header (AH) Hashed Message Authentication Codes (HMAC) is used with Encapsulating Security Payload (ESP) encryption algorithm.
CSCum54897	Reduced throughput is observed for non-TCP/UDP IPsec traffic.
CSCum59363	Ethernet ring flap is observed when the topology has 3 to 4 rings.
CSCum94581	Delay Measurement Message (DMM) is not working when CFM hardware offload is configured.
CSCun02393	CPU spike is observed for 10 to 20 seconds when IGMP snooping or MLD snooping is configured with REP or G8032 or MSTP.
CSCun12288	Offloaded CFM session is not coming up with untagged EVC MEP.
CSCun13467	BFD flap is observed after enabling and disabling IP IGMP snooping on DR.
CSCun14606	After configuring the **no ipv6 mld snooping vlan** *num* **listener-message-suppression** command, the running configuration shows **no ipv6 mld snooping vlan** *num* **report-suppression**. After reboot, the configuration is not accepted and the configuration is lost.
CSCun17425	IPsec tunnel flap is observed when rekey and Dead Peer Detection (DPD) is enabled.
CSCun20685	The ERP state machine flaps during topology reconvergence.
CSCun27273	MPLS Label Distribution Protocol (LDP) bindings are being created for virtual console IP.
CSCun42436	IP SLA with Ethernet loopback fails in service performance on both sender and responder.
CSCun44319	If more than 100 IGMP joins or leaves occur in a single burst, some entries might get dropped. It works fine up to a maximum of 100 joins or leaves in a single burst.
CSCun51336	Open Shortest Path First (OSPF) remains active even after configuring Access Control List (ACL) deny any on the interface.
CSCun52296	Validblock_diagnose crash with code 2 and 8 on Soak with triggers.
CSCun52716	Egress policy counters are not working after applying on the port-channel interface.
CSCun73821	Traffic drop is observed on G.8032 without Connectivity Fault Management (CFM).
CSCun81002	The ACL slices are showing double wide in the Cisco ASR 901 10G IPsec/NAT router.

Bug ID	Description
CSCun86288	Binding table is not getting cleared as DHCP snooping agent fails to process release packets.
CSCun88604	The G.8032 ring is not coming up unless CFM VLANs are in exclusion VLANs.
CSCuo08420	BFD fails while performing ERP open-close-ring combination with neighbor reload.
CSCuo09033	High convergence is observed with G.8032 followed by a failure in G.8032 open ring.
CSCuo53108	The NAT table shows incorrect translation entries for outside NAT.
CSCuo75014	REP configured with platform fast-lsl is flapping after receiving multicast IGMPv4 join and leave messages.
CSCuo82115	CPU hog is observed during boot up. The ERP PP process is running for more than 28ms.
CSCup15056	Router crashes due to memory corruption while performing a manual switch in G.8032
CSCup52216	Address Resolution Protocol (ARP) packets over xconnect interface are getting punted to CPU.
CSCup66350	Intermittent traceback is observed when OSPF is enabled over IPsec tunnel.
CSCup66406	OSPF prefixes over 60 fails to advertise over IPsec tunnel.
CSCup80154	Router hangs on write erase for a configuration file (with confreg 0x00).
CSCup82096	Router is accepting only a maximum of six RMEP with 100 ms in P2MP CFM offload sessions.
CSCuq06179	The Cisco ASR 901 slave is not sending delay request packet.
CSCuq44860	Ethernet link flaps when MPLS is enabled on the gigabitethernet interface.
CSCuq84965	Egress MLPPP classification is not working when moved to BCP.
CSCur08492	The Hybrid Clock is in warm-up state for more than 25 minutes after the router reload.
CSCur18989	Reverse NAT packets drops after longevity test.
CSCur33651	End-to-End packet forwarding is not working over tunnel interface.
CSCur61371	Traceback is reported (enduro_clk_port) on ip dhcp configuration over PTP.
CSCur70350	PTP flaps between bridge and normal; reference 10M has failed to recover after the OOR alarm reported with timing loop.
CSCur78942	Router requires reload to mirror the UDP packet capture.
CSCus09581	Linux trap is seen after clearing scaled NAT configuration.
CSCus16851	QoS statistics shows less than expected traffic.
CSCus25197	Port list is not populated properly for IGMP snooping.
CSCus76825	Unicast traffic is not flowing through multilink after multilink shut/no shut..

Bug ID	Description
CSCus97148	CFM Hardware Offload is not detecting mismatched intervals correctly.
CSCut02024	Memory leak in REP over port-channel.
CSCut03662	MLD snooping over EVC xconnect between Cisco ASR 901 router and Cisco C7600 router is not working.
CSCut37773	In Hybrid BMCA the master switchover time is not within the limit.
CSCut42425	CPU bit is not set in harware with join group when one VLAN is deleted.
CSCut44290	The time quanta value is 0 in ethernet pause frame transmitted by the router.

Resolved Caveats

This section provides information about the resolved caveats for the Cisco ASR 901 router running Cisco IOS Release 15.5(2)S.

Bug ID	Description
CSCuj33687	Node failure in open ring results in high convergence time for REP.
CSCup00563	Few commands in QoS of MLPPP that is affecting shaper has to be blocked.
CSCup59366	Invalid length packets are not displayed in interface statistics.
CSCup74175	Link flap is observed when a port is shutdown adjacent to another that has an SFP.
CSCup89894	PTP clock class is not changing to the new value when the input frequency source is internal and reports OOR alarm.
CSCup95169	Service-policy detaches for first CEM AC and fails for the remaining.
CSCuq01552	Multicast counters are not supported.
CSCuq06183	MPLS TEFRR node protection fails for L3VPN/L2VPN with “explicit-null”.
CSCuq21261	Queue drops are not working after shutting one member link in port-channel.
CSCuq22374	CFM hardware offload fails with a certain profile.
CSCuq24450	Multicast traffic is not received on receiver 2 after disabling IGMP snooping.
CSCuq26042	The Cisco ASR 901 PE router clears AIS alarm on E1s though the CESoPSN Pseudowires (PWs) are down.
CSCuq26796	Traffic is not flowing when shaper is configured with more than the MLPPP bandwidth of 16 links.
CSCuq31124	TEFRR node protection fails for L3VPN/L2VPN traffic with ECMP tunnels.
CSCuq33234	Ethernet CFM ping and trace fails on defaulting the poch interface.
CSCuq37155	SFP OIR in GigabitEthernet 0/8 gives momentary flap in other ports.

Bug ID	Description
CSCuq38939	IPMC IPv6 table entry is not created on the RP for second receiver.
CSCuq42802	The media-type auto-select is not taking fiber port as default interface.
CSCuq47448	Notification is not received when REP topology changes.
CSCuq49646	ZTD auto-install is not working on 10G interface.
CSCuq51188	Router fails to update WRED table after applying a QoS policy-map.
CSCuq51295	Show version always displays system returned to ROM by “power-on”.
CSCuq51636	SNMP ifAlias is not populated on E1 interface.
CSCuq53991	ARP flush optimization triggered with MAC age-out on VLAN.
CSCuq56943	ASR 901 PTP configuration causes stack exhaustion.
CSCuq67171	Combo-port is not coming up with 10Mbps on one side and auto-negotiation on the other end.
CSCuq76328	10G link is not coming up with Copper SFP after upgrade.
CSCuq86348	AUX line configuration reports system voltage fail condition.
CSCuq87497	Two interfaces obtained from SNMP are not listed in the CLI interfaces.
CSCuq92322	Removing SyncE state master under interface removes SyncE slave configuration.
CSCur18762	Xconnect statistics shows huge counter value after running the **clear ip route *** command.
CSCur19065	BC Sync/Delay packets are stopped after reinserting SFP with static route.
CSCur24896	GigabitEthernet auto-negotiation fails with Huawei MW radio RTN 905.
CSCur27971	BITS framer out is not disabled with no form of the **network-clock output system 1 external 0/0/0** command.
CSCur33477	Auto-negotiation need to be enabled for 1G speed in 10G ports.
CSCur45886	Incorrect poll for ciscoEnvMonSupplyStatusDescr MIB.
CSCur50275	Byte counters in SVI for control traffic shows double.
CSCur55246	The sum of per-master packet statistics does not match total packet statistics.
CSCur56782	TCAM exhaustion for SVI VLAN counter needs proper handling.
CSCur58690	Route-map counters generated even if there is no FP entry for matched ACL.
CSCur59515	1pps out is configured automatically during PTP clock domain configuration.
CSCur63045	1Gig SFP in 10Gig mode throws I2C error after reboot and reinsertion of SFP.
CSCur72178	10M posting reference frequency out-of-range after reconfiguring 10M out.
CSCur72216	FP entry is consumed when ACL is applied on loopback which is not supported.
CSCur78602	Error Message "pstorm_ether_pak_rx: 2680" is seen continuously on the console.

Bug ID	Description
CSCur84700	Unsupported random detect configuration has to be blocked.
CSCur88957	IFP entry is not created after the following steps: 1. Apply unconfigured ACL on route-map. 2. Configure ACL with permit.
CSCus03239	After removing “policy” on the system, the existing configuration does not take effect.

Troubleshooting

The following sections describe troubleshooting commands you can use with the router.

Collecting Data for Router Issues

To collect data for reporting router issues, issue the following command:

- **show tech-support**—Displays general information about the router if it reports a problem.

Collecting Data for ROMMON Issues

To collect data for ROMMON issues, issue the following command while in the EXEC mode:

- **show rom-monitor**—Displays currently selected ROM monitor.

Note If you contact Cisco support for assistance, we recommend that you provide any crashinfo files stored in flash memory. For more information about crashinfo files, see http://www.cisco.com/en/US/products/hw/routers/ps167/products_tech_note09186a00800a6743.shtml.

Related Documentation

Documents related to the Cisco ASR 901 Series Aggregation Services Router include the following:

- *Cisco ASR 901 Series Aggregation Services Router Hardware Installation Guide*
- *Cisco ASR 901 Series Aggregation Services Router Software Configuration Guide*
- *Regulatory Compliance and Safety Information for Cisco ASR 901 Series Aggregation Services Routers*
- *Cisco ASR 901 Series Aggregation Services Router Series MIB Specifications Guide*

To access the related documentation on Cisco.com, go to:

- Cisco ASR 901 1G Router home page: http://www.cisco.com/en/US/partner/products/ps12077/tsd_products_support_series_home.html
- Cisco ASR 901 10G Router home page: http://www.cisco.com/c/en/us/support/routers/asr-901-10g-series-aggregation-services-routers/tsd-products-support-series-home.html

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html.

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