



Ethernet Routing Switch 8800/8600

Readme

Software Release 7.1.5.0



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Software Release 7.1.5.0

Release Date: August 24, 2012

Purpose: Software maintenance release to address externally found customer issues.

Important Notices

Supported hardware for Release 7.1.5.0

Refer to the ERS 8800 Release Notes for a complete list of supported hardware - **Release Notes — Software Release 7.1.3 Avaya Ethernet Routing Switch 8800/8600 (NN46205-402, 08.02)** available at <https://support.avaya.com>

Upgrade Notes

This section describes the Ethernet Routing Switch 8800 Software Release 7.1.5.0 software files.

Before you upgrade, it is recommended to verify the MD5 signature for each new file to be used.

For upgrade procedures, see **Upgrades — Software Release 7.1.3 Avaya Ethernet Routing Switch 8800/8600 (NN46205-400, 07.03)** available at <https://support.avaya.com>

File Names for This Release

Module or file Type	Description	File name	Size in bytes	
Software tar file	Tar file of all software	Deliverables (includes images that also contain encryption software)	pr86_7150.tar.gz	67717669
Ethernet Routing Switch images				
Boot monitor image for 8692 SF/CPU	8692 CPU and switch fabric firmware	p80b7150.img	1189959	
Boot monitor image for 8895 SF/CPU	8895 CPU and switch fabric firmware	p80be7150.img	1256338	
Run-time image for 8692 SF/CPU	Run-time image for 8692 SF/CPU	p80a7150.img	15815162	
Run-time image for 8895 SF/CPU	Run-time image for 8895 SF/CPU	p80ae7150.img	14842241	
Run-time image for R modules	Run-time image for R modules	p80j7150.dld	1795796	
Run-time image for RS modules	Run-time image for RS modules	p80k7150.dld	1858588	



Run-time image for Enterprise Enhanced SF/CPU Daughter Card (SuperMezz)	Image for the SuperMezz Card	p80m7150.img	15894824
3DES for 8692 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80c7150.des	56124
3DES for 8895 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80ce7150.des	51972
AES for 8692 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80c7150.aes (this image includes the 3DES image)	27436
AES for 8895 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80ce7150.aes (this image includes the 3DES image)	25156
MIB	MIB files	p80a7150.mib	5243412
MIB (zip file)	Zip file containing MIBs	p80a7150.mib.zip	821342
MD5 checksum File	md5 checksums of all Release 7.0 software files	p80a7150.md5	1230
FOQ for R modules	Feedback output queuing FPGA firmware	foq267.xsvf	5320469
BMC for R modules	BAP memory controller FPGA firmware	bmc776.xsvf	2640266
DPC for R modules	Dual port Controller FPGA firmware	dpc194.xsvf	2642001
PIM8630GBR	Programmable I/O module FPGA firmware; for the 8630GBR only	PI_769.xsvf	2284578
Firmware for RS modules	Contains FOQ, BMC, DPC, mirroring, and loopback images	rs_dpm_fpga.bin	4538368
PIM images for RS modules	PIM FPGA firmware required for 8612XLRS module only	pim8612XLRS.bin	60183
	PIM FPGA firmware required for 8634XGRS module only	pim8634XGRS.bin	78173



	PIM FPGA firmware required for 8648GBRS module only	pim8648GBRS.bin	79891
	PIM FPGA firmware required for 8648GTRS module only	pim8648GTRS.bin	54441
Trace files			
MPLS trace file	Trace file for MPLS. This is auto generated and appears on the PCMCIA after upgrade.	nbpdtrc.lo0	
EDM Help files			
EDM help files	Help files for EDM GUI	ers8000v7150_HELP_EDM.zip	5095300
ERS 8000 EDM plug-in for COM			
EDM plug-in for COM	EDM plug-in for COM	ers8000v7.1.5.0.zip	6923190

NOTE: dpc194.xsvf is a new DPC FPGA image for R-modules that can only be used with 7.0.0.1 or greater releases. These are not packaged as part of the release. Please obtain the software from Avaya Support if needed.

Version of Previous Release

Software Version **7.1.3.10**

Compatibility

This software release is managed with Enterprise Device Manager (EDM).

Note: EDM Help files and EDM plug-in for COM are included with this release. Those must also be updated as part of upgrading to release 7.1.5.0.

Changes in This Release

New Features in This Release

None.

Old Features Removed From This Release

None.

Problems Resolved in This Release

- VRRP transitions are observed when the port state of SLT/SMLT links changes [wi00965416 / wi01021008]
- CPU MGMT Port locks up occasionally and requires reboot while under high traffic loads [wi00996256 / wi01021014]
- Retina Scan causes FTP sessions to hang in CLOSE_WAIT state [wi01010232 / wi01020995]



- TCP/IP Instability during and after a DOS like network scan [wi00999478 / wi01020994]
- Egress queue draining improvements for 8683XLR [wi01030286 / wi01030289]
- “configure add bgp network” causes software license violation to be seen [wi01014784]
- ACLI: Access-policy-SNMPv3 configuration disappears after re-boot [wi01018223]
- Inconsistent ACL/ACE behaviour is observed on 8648GTRS module [wi01014728]
- ACLI: Set a port to forced speed & duplex, enable the verify-config boot flag, save the config and reboot the box. After the reboot, error occurs at the time of loading config.cfg and all the cards are taken offline [wi01020972]
- show fulltech can be disallowed if SSH session is stranded during execution [wi01020662]
- Hardware rev54 8692 SF/CPU OOB Management port shows up as up/active with nothing connected [wi00908274 / wi00976833]
- A buffer memory leak accompanied by ‘rclpBootPReply failed to send broadcast DHCP response. No circuit for src IP 0.0.0.0, VLAN 0, IFINDEX 641’ is seen [wi00999447 / wi01023659]
- Connectivity issues occur when OSPF External Routes are learnt [wi01002839 / wi01013382]
- Non ICMP routed traffic is discarded if destination is actually on ingress VLAN [wi00973648 / wi00990346]
- Incorrect XFP type shown sometimes in logs when XFP was unplugged / plugged [wi00995034]
- RSMLT IP/MAC addresses are not always correctly spoofed. [wi00936870 / wi00990309]
- MSDP INFO messages filling up the logs. [wi00928703 / wi00990311]
- V5 to V7x Upgrade: V5 ACLI route-map definitions cause partial config loss after upgrade. [wi00985414 / wi00991133]
- ERS 8600 5.1.7.0: Arp entries not getting aged out but keep getting refreshed. [wi00989668 / wi01013379]. As part of this fix, also added support for Port/ VLAN->IP>ARP->ForcedRearp [wi01030298]
- ACLI: IP Static Multicast ARP entries defined on an MLT are lost after a reboot [wi01023009]
- IPVPN-Lite: BGP Redistribution Propagates Default Route with incorrect next-hop Address [wi01024321]
- Missing “show spanning-tree config” support on ERS platform [wi01004049]
- Error messages are seen with AA1419049-E6 on 8634XGRS [wi00908211 / wi00991546]
- Request to hide unknown community string names from syslog [wi01029822]
- Syslog message are sent using LAST created CLIP Interface IP address instead of the first configured CLIP address [wi01026441]
- Continuous GBIC inserted message scrolling for 8630GBR with AA1419049-E6 SFP. [wi01001887 / wi01030252]
- ERS8800 Radius CLI Profile is not working with SSH but its working fine via Telnet [wi00945536 / wi01030176]
- L3VSN connectivity issue at customer site after migrating OSPF to SPBM [wi01018732 / wi01033808]



- ERS8800 with CP card 8895SF/CPU registered three consecutive core dumps. Device running on s/w 7.1.3.0. SOP init problem [wi01011887]
- 8648GBRS line card gets rebooted when AA1419043 inserted [wi01014221 / wi01035891]
- Need to have the MLT-id included in the "show LACP interface MLT" command [wi01032546]
- ERS 8600: 5.1.4: 8683 XLR ingress Lane lockup [wi01000004]
- ERS 8600: 5.1.x/7.1..x; High CPU/High buffer utilization caused by Dual AC-input Power Supply [wi01002565]
- 8600:v7.1.3 or higher: ACL problem: NextHopReachableRedirect - Redirection works ok for the case when the redirection destination is reachable but when the redirection destination is not reachable the filter does not stop redirecting [wi01013834]
- A core may result when running the command "show isis spbm multicast-fib" when using the filter i-sid or nick-name [wi01033200]
- CFM : LBM packet with Spbm Ethertype 0x88a8 as well as 0x8100 being generated if the default "spbm ethertype" is changed to 0x88a8 [wi01035918]
- ERS8600 7.1.3.x: Links may not come up between 8648GBRS with Copper SFP transceivers and 8648GTRS [wi01027175 / wi01029009]
- ERS8600: 1GB SX SFP transceivers in 8630GBR may not report proper type and Vendor [wi01027179 / wi01029009]
- RSMLT holdup timer not counting in edge support scenario and peer MAC is made local permanently [wi01028907]
- 8895SF/CPU could reset when LACP is globally disabled on adjacent node [wi01026059]
- Enhancement request to reset SF when FAB Memory Full detected [wi01004464]
- Egress queue draining for R modules [wi01011220]
- R module code could accidentally drop into the RS module mirroring code [wi01011222]
- The R modules do not treat PAUSE frames in their default configuration but rather pass them on to the CPU with QoS 7 [wi01011225]
- Routes rejected after deleting/re-adding BGP in VRF route-policy. [wi00564356 / wi00990365]
- ERS8600: "show ip ipfix flows" parameters do not work in ACLI mode [wi00891540 / wi00938144]
- SSH logging has been improved to more clearly indicate the session login and logout information [wi01023027]

Outstanding Issues

None



Known Limitations

- Link Flap and automatic port shutdown may result for the ports connected to 8812 ports when the system is booting up. The link flap duration is around 20 seconds and is directly related to the number of ports in use. The duration is lowered with the fewer number of ports used. There are 2 work around options: 1. disable link flap detect auto port down (enabled by default) (not recommended) 2. increase the link flap detect interval to a number greater than the duration of the link flap seen.
- When we are running multiple ports configured in the same lane, we see momentary traffic loss on other ports in the lane, when the operating speed/duplex changes on one of the ports. If the operating speed/duplex remains same as before, there is no traffic loss. For example, if we pull a SFP and plug it back in, and the speed/duplex remains same as before, we will not see traffic loss. The reason for this is that every time a port speed changes, we need to re-configure lane specific shapers. This is the case if we are re-configuring Egress Queue Sets and configuring port shapers also.
- Please refer to the Known Limitations Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 7.1.3.0 and 7.1.3.10. No other new known limitations have been found than those noted above.

Documentation Corrections

None.

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