



Ethernet Routing Switch 8600

Readme

Software Release 7.0.0.3



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Software Release 7.0.0.3

Release Date: May 27, 2011

Purpose: Customized Software Release

Important Notices

Avaya Inc has acquired the Enterprise Solutions business from Nortel. This acquisition includes the ERS 8600 and software described in this document. During the transition of all assets and support infrastructure of products and services to Avaya, Nortel provides certain infrastructure support. As such, you will find the Nortel name, and pointers to Nortel support locations on the Internet being referenced intermixed with Avaya in this document.

Non supported hardware for Release 7.0:

Release 7.0 does not support any classic modules.

In addition, Release 7.0 supports the 8692 SF/CPU only if it is equipped with SuperMezz. The 8692 SF/CPU without SuperMezz is not supported with Release 7.0.

The 8003 chassis is no longer supported. It is replaced by the 8003-R chassis.

For a complete list of non supported hardware, please refer Ethernet Routing Switch 8800 - Release Notes - Software Release 7.0

Also refer to the following documents for extra details and as reference material in addition to this Readme:

- [Ethernet Routing Switch 8800 - Release Notes - Software Release 7.0](#) (Doc # NN46205-402, Rev 04.01)
- [Ethernet Routing Switch 8600 - Upgrades - Software Release 7.0](#) (Doc # NN46205-400, Rev 04.02)
- [Ethernet Routing Switch 8600 - Installation - Modules](#) for Software Release 7.0 (Doc # NN46205-304, Rev 04.02)
- [Ethernet Routing Switch 8600 - Administration](#) for Software Release 7.0 (Doc # NN46205-605, Rev 03.02)
- [Ethernet Routing Switch 8600 - Routine Maintenance](#) for Software Release 7.0 (Doc # NN46205-312, Rev 03.02)

Notes for Upgrade

This section describes the Ethernet Routing Switch 8800 Software Release 7.0.0.3 software files.

Before you upgrade, it is recommended to verify the MD5 signature for each new file to be used. For upgrade procedures, see Nortel Ethernet Routing Switch 8600 Upgrades — Software Release 7.0 (NN46205-400) available at www.nortel.com/support.

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_7003.tar.gz	58654801
Ethernet Routing Switch images			



Boot monitor image for 8692 SF/CPU	8692 CPU and switch fabric firmware	p80b7003.img	1181328
Boot monitor image for 8895 SF/CPU	8895 CPU and switch fabric firmware	p80be7003.img	1250954
Run-time image for 8692 SF/CPU	Run-time image for 8692 SF/CPU	p80a7003.img	14198584
Run-time image for 8895 SF/CPU	Run-time image for 8692 SF/CPU	p80ae7003.img	13225131
Run-time image for R modules	Run-time image for R modules	p80j7003.dld	1653376
Run-time image for RS modules	Run-time image for RS modules	p80k7003.dld	1712532
Run-time image for Enterprise Enhanced SF/CPU Daughter Card (SuperMezz)	Image for the SuperMezz Card	p80m7003.img	14298410
3DES for 8692 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80c7003.des	55928
3DES for 8895 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80ce7003.des	51860
AES for 8692 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80c7003.aes (this image includes the 3DES image)	25712
AES for 8895 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80ce7003.aes (this image includes the 3DES image)	21616
MIB	MIB files	p80a7003.mib	4877910
MIB (zip file)	Zip file containing MIBs	p80a7003.mib.zip	767048
MD5 checksum File	md5 checksums of all Release 7.0 software files	p80a7003.md5	1161
Firmware images			
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	dpc184.xsvf	2583454
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	ERS8000_70_Help. zip	2973741
ERS 8000 EDM plug-in for COM			
EDM plug-in for COM	EDM plug-in for COM	ers8000v7.0.0.3.war	5431722

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 **7.0.0.1**

Compatibility

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

Changes in This Release

New Features in This Release



1. Support Autoneg and CANA for copper SFPs on 8634xxx

Release 7.0.0.3 adds Auto-negotiation and CANA support for ports using Copper SFPs on 8634XGRS card. This support will allow the ports to operate in 10/100/1000 speeds

Related commands:

CLI commands:

```
"config ethernet slot/port auto-negotiate enable/disable"  
"config ethernet slot/port auto-negotiate-advertisements 10-half,10-full,100-half,100-full,1000-half,1000-full, default,none"  
"config ethernet slot/port speed 10/100"  
"config ethernet slot/port duplex half/full"
```

Example:

If you have 8634XGRS with Copper SFP in slot3 port 5

```
"config ethernet 3/5 auto-negotiate enable" Enables auto-negotiation on port 5.  
"config ethernet 3/5 auto-negotiate-advertisements 100-full" Enable CANA speed to 100-Full.  
"config ethernet 3/5 speed 100" Disable auto-negotiate first and then set the speed to 100Mbps for hard coded interface speed.  
"config ethernet 3/5 duplex full" Sets the duplex to full.
```

NNCLI commands:

Caution: This release supports NNCLI like release 7.0.0.0. Avaya CLI is not supported here.

```
"config terminal"  
"config> interface GigabitEthernet slot/port"  
"config-if> no auto-negotiate"  
"config-if> auto-negotiate enable"  
"config-if> auto-negotiation-advertisements 10-half,10-full,100-half,100-full,1000-half,1000-full, default,none"  
"config-if>speed 10/100"  
"config-if>duplex half/full"
```

Example:

If you have 8634XGRS with Copper SFP in slot3 port 5

```
"config terminal"  
"config> interface GigabitEthernet 3/5"  
"config-if> auto-negotiate" Enables auto-negotiation on the port  
"config-if> auto-negotiation-advertisements 100-full" enables CANA with100-full  
"config-if>speed 100" sets the speed to 100Mbps. Please disable auto-negotiation first if you want 100Mbps hard coded for speed on either side.  
"config-if>duplex " sets the mode to full duplex.
```



EDM Support:

This release does not support JDM. Like 7.0.0.0 please use EDM. Please follow the below.

From CLI on the switch.

“config web-server enable”

“config web-server password rwa admin rwa”

Please note that rwa rwa does not work any more. You need to set the admin name admin instead of rwa for factory defaulted Read Write administration.

When you launch the EDM you need to input

user “admin”

password “rwa”

vrf “GloboRouter”

Supported Configurations:

Both side AutoNego=Disable

Config		OperStats		Local Link	Remote Link
Local XGRS AutoNego= DISABLE	Remote Side(PC,switch,etc) AutoNego = DISABLE	XGRS	Remote Side		
10half	10half	10half	10half	Yes	Yes
10full	10full	10full	10full	Yes	Yes
100half	100half	100half	100half	Yes	Yes
1000full	1000full	100full	100full	Yes	Yes

Both side AutoNego=Enable, with and without CANA

Config		OperStats		Local Link	Remote Link
XGRS AutoNego= ENABLE	Remote Side 1G port(PC,switch,etc) AutoNego = ENABLE	XGRS	Remote Side		
AutoNeg with full adv	Autoneg with full adv	1000full	1000full	Yes	Yes
AutoNeg with full adv	CANA, max adv= 10half	10half	10half	Yes	Yes
AutoNeg with full adv	CANA, max adv= 10full	10full	10full	Yes	Yes
AutoNeg with full adv	CANA, max adv= 100half	100half	100half	Yes	Yes
AutoNeg with full adv	CANA, max adv= 100full	100full	100full	Yes	Yes
CANA, max adv=10half	Autoneg with full adv	10half	10half	Yes	Yes
CANA, max adv=10full	Autoneg with full adv	10full	10full	Yes	Yes
CANA, max adv=100half	Autoneg with full adv	100half	100half	Yes	Yes
CANA, max adv=100full	Autoneg with full adv	100full	100full	Yes	Yes

Certain limitations of this new feature:



1. Operationally optical ports outfitted with a CuSFPs appear functionally identical to a true copper interface with one notable exception – CuSFP link bring-up on optical ports is substantially slower than the bring-up of native copper ports. It takes a minimum of 5 seconds, up to 10s of seconds, for a CuSFP port to get link in both AN and fixed speeds. When a system with a lot of the CuSFPs plugged in during boot up the port up times could be slower than normal copper ports on a GTR or GTRS to come up. With all the 24 CuSFPs plugged in after the boot up the ports took more than 20secs in a Test Lab environment with no traffic load.
2. It is recommended not to run Fixed speed on one end and auto-negotiation on the other end of the circuit. As the end with auto-negotiation can't negotiate and will revert to half duplex. This could lead to traffic loss.
3. It is recommended not to run with mis-matching fixed speeds.

Old Features Removed From This Release

None.

Problems Resolved in This Release

IP

In some brouter and OSPF configurations, traffic fails to take secondary path after port link on the primary path is disabled. This issue is now resolved. (WI00853927)

DSCP marking for IP multicast traffic is not working. This issue is now resolved. (WI00838230)

Under certain circumstances when a directly attached network of a remote IST peer is learned across the SMLT edge switch via Ospf instead of commonly attached vlan interface, traffic from the remote vlan to any of the directly attached access interfaces of the local IST peer is lost. This issue is now resolved (WI00882481)

General

R/RS cards may lock up on an ERS8695/ERS8895SF while doing SNMP polling. This issue is now resolved. (WI00873576)

ERS8895 Ethernet management port may lose memory (mbuf) when an external host attempts to retrieve (FTP) a large file from the system. This issue has been resolved. (wi00865965)

When PIM is disabled globally, there was a problem during cleanup which lead to memory corruption and may cause a core dump. This issue has now been resolved. (wi00873936)

While management port is exercised with scripts running continuously mbuf leaks occurs causing the box to become unresponsive. This issue is now resolved. (WI00850701/WI00863796)

ERS8695/ERS8895SF sends the Management port mac address in the reverse order. This issue is now resolved.(WI00852556)

Under some circumstances with HA enabled on the Dual 8695/8895SF switches crashes were observed. This issue is now resolved. (WI00850704)

When ports are disabled and re enabled while traffic is passing through some of the line cards will restart on a Switch with ERS8695/ERS8895SF. This issue is now resolved. (WI00846022)

ERS8695/ERS8895 Management port Duplex stays full even though it port is configured for Half-Duplex. The issue is now resolved. (WI00846024)

Insertion of a High speed fan tray followed by a ERS8695/ERS8895SF failover causes a working RS modules to go offline. This issue is now resolved (WI00840902)



Upon boot Correct Ospf Default metric is not assigned to the interface based on port speed. This issue is now resolved. (WI00838219)

Upon boot Correct Stp Default metric is not assigned to the interface based on port speed. This issue is now resolved. (WI00838292)

Under Certain circumstances a machine check occurs on the Standby ERS 8695/ERS8895SF when an RS module is reseated. This issue is now resolved. (WI00840894)

Under Certain circumstances the status of some R/RS modules is incorrect upon HA failover from Master to Hotstandby ERS8695/8895SF. This issue is now resolved. (WI00842148)

Under Certain circumstances Master CP (ERS8695/ERS8895) crashes upon reinsertion of a R/RS module. This issue is now resolved. (WI00842153)

Deletion of an existing ACT/ACL causes the filter configuration corrupted. This issue is now resolved. (WI00838248)

When auto-negotiation is disabled on the port followed by a configuration save and chassis reboot leads to port status down. Disable and re enable of the port does not bring the port status up. This issue is now resolved.

In the Lab environment it was observed 12.5% loss at 64byte, 4.2% at 256byte, 2.2% at 512byte and 0.7% at 1518byte packets, when we are transmitting 1G traffic on a copper SFP port on 8634XGRS card (WI00864363).

On a port with Copper SFP, since fixed speed of 1000 is invalid, disabling auto-negotiation will not be allowed if the admin speed is 1000. On a port with Fiber SFP, auto-negotiation will not be allowed to be disabled if the admin speed is 10 or 100MB (WI00866439).

Under certain conditions when the DDI status of the SFP/XFPs is polled via snmp periodically, the pluggables are no longer recognized. The Line card needs a reset to recognize the pluggable and bring the physical links up. The present with systems booted with 8695SFs. The issue is now resolved (WI00873576)

Outstanding Issues

To run 1000 speed according to the standards auto-negotiation is required. The cli has a consistency check in place which will not allow user to set the port speed to 1000 with auto negotiation is disabled. EDM allows the user to set the speed. This limitation will be removed in the future.

Please refer to the Outstanding Issues Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 7.0.0.1. No other new issues have been found.

Known Limitations

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 7.0.0.1. No other new known limitations have been found.



Documentation Corrections

None.



Software Release 7.0.0.1

Release Date: November 15, 2010

Purpose: Customized Software Release

Important Notices

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Non supported hardware for Release 7.0:

Release 7.0 does not support any classic modules.

In addition, Release 7.0 supports the 8692 SF/CPU only if it is equipped with SuperMezz. The 8692 SF/CPU without SuperMezz is not supported with Release 7.0.

The 8003 chassis is no longer supported. It is replaced by the 8003-R chassis.

For a complete list of non supported hardware, please refer Ethernet Routing Switch 8800 - Release Notes - Software Release 7.0

Also refer to the following documents for extra details and as reference material in addition to this Readme:

- [Ethernet Routing Switch 8800 - Release Notes - Software Release 7.0](#) (Doc # NN46205-402, Rev 04.01)
- [Ethernet Routing Switch 8600 - Upgrades - Software Release 7.0](#) (Doc # NN46205-400, Rev 04.02)
- [Ethernet Routing Switch 8600 - Installation - Modules](#) for Software Release 7.0 (Doc # NN46205-304, Rev 04.02)
- [Ethernet Routing Switch 8600 - Administration](#) for Software Release 7.0 (Doc # NN46205-605, Rev 03.02)
- [Ethernet Routing Switch 8600 - Routine Maintenance](#) for Software Release 7.0 (Doc # NN46205-312, Rev 03.02)

Notes for Upgrade

This section describes the Ethernet Routing Switch 8800 Software Release 7.0.0.1 software files.

Before you upgrade, it is recommended to verify the MD5 signature for each new file to be used. For upgrade procedures, see Nortel Ethernet Routing Switch 8600 Upgrades — Software Release 7.0 (NN46205-400) available at www.nortel.com/support.

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_7001.tar.gz	58644367
Ethernet Routing Switch images			



Boot monitor image for 8692 SF/CPU	8692 CPU and switch fabric firmware	p80b7001.img	1181409
Boot monitor image for 8895 SF/CPU	8895 CPU and switch fabric firmware	p80be7001.img	1250892
Run-time image for 8692 SF/CPU	Run-time image for 8692 SF/CPU	p80a7001.img	14191857
Run-time image for 8895 SF/CPU	Run-time image for 8692 SF/CPU	p80ae7001.img	13222440
Run-time image for R modules	Run-time image for R modules	p80j7001.dld	1651888
Run-time image for RS modules	Run-time image for RS modules	p80k7001.dld	1710796
Run-time image for Enterprise Enhanced SF/CPU Daughter Card (SuperMezz)	Image for the SuperMezz card	p80m7001.img	14296857
3DES for 8692 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80c7001.des	55928
3DES for 8895 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80ce7001.des	51860
AES for 8692 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80c7001.aes (this image includes the 3DES image)	25712
AES for 8895 SF/CPU	Encryption module for privacy protocol with Secure Shell (SSH)	p80ce7001.aes (this image includes the 3DES image)	21616
MIB	MIB files	p80a7001.mib	4877775
MIB (zip file)	Zip file containing MIBs	p80a7001.mib.zip	766999
MD5 checksum File	md5 checksums of all Release 7.0 software files	p80a7001.md5	1161
Firmware images			
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	2583454
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	ERS8000_70_Help. zip	2973741
ERS 8000 EDM plug-in for COM			
EDM plug-in for COM	EDM plug-in for COM	ers8000v7.0.0.0.war	5427338

NOTE: dpc194.xsvf is a new DPC FPGA image for R-modules that can only be used with post 5.1.3GA releases. Do not use this DPC FPGA image with pre5.1.3 releases; it may result in R-modules not booting up successfully and one may need RMA to get the card back in good state.

Version of Previous Release

Software Version **7.0.0.0**

Compatibility

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



Changes in This Release

New Features in This Release

1. SSF Failure Dynamic Detection Enhancement

1.1. SSF Failure Dynamic Detection Existing Functionality (original CR Q01505098)

- SSF failure dynamic detection existing functionality demands at least one parity error per 500 ms on any I/O module TAP in order to declare the existence of a SSF problem. For example, if user set 8 errors (config bootconfig parity-errors set 8), that will mean at least one error per 500ms in an interval of 4 seconds.
- Only I/O modules' TAPs are being checked for parity errors
- Supported on pre-E/E/M type of I/O modules only

Related commands:

*ParityError:5/config/bootconfig/parity-errors# ?

Sub-Context:

Current Context:

disable

enable

set < Size >

action-869xSF-disable <true|false>

info

*ParityError:5/config/bootconfig/parity-errors#

Certain limitations of this new feature:

- When there is only one CP in the chassis, on detecting an excess parity error the line card is now powered off before rebooting the CP to monitor mode.
- When the parity error occurs in the slave CP then the "autoboot flag" is set to false in the slave boot.cfg. This will result in the slave CP being rebooted and staying in the boot monitor mode effectively taking the slave/standby SF out of service.
- When the master detects the excess parity error, the "autoboot flag" is set to false on both the master and slave boot.cfg. The consequence of this is that if a second error occurs on the new master, it will re-boot and stop at boot monitor. The customer has a script that goes round and changes the "autoboot flag" to true in the master boot.cfg
- When the parity error is detected on the master, the new slave that becomes master will initialize the failed SF. The failed SF will still be in service.

1.2. SSF Failure Dynamic Detection Enhanced Functionality



Enhancement I : Check the SSF/CPU module's TAP's parity bit

This enhancement will take care of packets destined to CPU. For example, an OSPF sent from the neighbor could be corrupted by the SSF, and the packet dropped by the OctaPid before being handed to the CPU. This is now detected by the 8895SF (or 8692SF) TAP parity bit.

Enhancement II : Attempt to recover by resetting the SSF

This Enhancement is for calling "swipLockupReset" for potential recovery when SSF failure is detected. Actually, based on the experience, 50% of the SSF problems can be recovered in this way.

Enhancement III : Detection for low rate traffic

This enhancement is to take care of control packets, like PIM, OSPF etc, which are low frequency. It runs in parallel with the high rate (one per 500 ms) detection mechanism.

2. Swip Multicast Queue Lockup Detection functionality porting

8691SF Swip multicast queue lockup detection and recovery functionality, introduced via V4.1.6.0 (CR Q01908843), has been ported, now supporting 8895SF (and 8692SF) which uses fswip. Related commands:

```
ERS-8606:6/config/sys/set# swip-reset-8895sf-flag true
ERS-8606:6/config/sys/set# swip-reset-8895sf-flag false
```

```
config sys set "swip-reset-8895sf-flag" is a hidden field
"config sys set info" does not show "swip-reset-8895sf-flag"
```

The configuration can be saved and seen via <show sys info> command.

Old Features Removed From This Release

None.

Problems Resolved in This Release

Platform

ICMP Echo responses from 8895 switch fabrics may sometimes experience extensive delays. This issue has now been addressed (wi00828130)

Multicast

After multiple link failures, PIM mroutes may point to incorrect upstream neighbors. This issue has now been addressed (wi00822119)



DSCP remarking does not function correctly for multicast packets. This issue has now been addressed (wi00829400)

Filters

ACE deletion could cause ACT/ACL corruption. This issue has now been addressed (WI00828084)

Outstanding Issues

Please refer to the Outstanding Issues Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 7.0.0.0. No other new issues have been found.

Known Limitations

Please refer to the Known Limitations Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 7.0.0.0. No other new known limitations have been found.

Documentation Corrections

None.

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