Ethernet Routing Switch 8600
Readme

Software Release 5.1.3.1

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Release Date: September 14, 2010

Purpose: Software maintenance release to address a PCMCIA driver issue.

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.

NOTE: For those customers who were part of the 5.1.2.0 Controlled Release program, an upgrade to this GA code release is recommended but is not required. The CRs listed in italic in the Problem Resolved section are the CRs changes between the CA release and the final GA release. Upgrading is left as a recommended option to the end user.

<u>**REGARDLESS OF SOFTWARE VERSION**</u>, the system-monitor flag should be checked on all systems to be sure it is enabled. This flag should always be enabled as it enables a software monitoring capability to detect and respond to abnormal software loop conditions. The flag setting can be checked via the command "show config". NOTE: Enabling this flag only takes effect after a reboot and must be saved in the config prior to reboot.

The display should be similar to the following:

ERS8600:6# show config
Preparing to Display Configuration...

#!flags m-mode false
#!flags enhanced-operational-mode false
#!flags vlan-optimization-mode false
#!flags global-filter-ordering false
#!flags r-mode true
#!resource-reservation max-vlan false
#!resource-reservation multicast 2048
#!flags multicast-check-packet true
#!flags system-monitor true (enabled)   or potentially false (disabled)
#!flags regular-Autoneg false
#!record-reservation filter 4096

If the system-monitor flag is set false, then it should be changed to true which can be accomplished through JDM by following the menu option sequence "Edit Chassis" -> "System Flags" and then look under "System Monitoring" at the bottom of the screen. Checked equals enabled.

To set via SNMP use:

MIB is rapidCity.rcMgmt.rcChassis.rcChasSystemMonitorEnable

snmpset -v 1 -c public x.x.x.x enterprises.2272.1.4.41.0 1

Where x.x.x.x = some IP address associated with the switch.

To view the setting via SNMP use:

snmpget -v 1 -c public x.x.x.x enterprises.2272.1.4.41.0

Output is either:

FALSE - SNMPv2-SMI::enterprises.2272.1.4.41.0 = INTEGER: 2 (disabled)
TRUE - SNMPv2-SMI::enterprises.2272.1.4.41.0 = INTEGER: 1 (enabled)

In prior releases, the SNMP timer task could potentially crash if the SNMP retry counter is set to a value greater than zero and multiple concurrent SNMP inform events are generated which do not receive an acknowledgement. While multiple factors and conditions need to align in order to encounter this SNMP task crash, it was recommended to set the SNMP retry count within the snmp-v3 target-address to zero in order to avoid the issue altogether. An example of such a configuration is (see the bolded entry):

Config snmp-v3 target-addr create "NNM" 10.10.10.1:162   "TparamV2" tdomain ipv4_tdomain timeout 1500 **retry 0** taglist informTag mms 484

This is now resolved in this release, and the retry value can now be set to values greater than zero. (Q02052753)

Platforms Supported

All Ethernet Routing Switch 8600 modules are supported in the 8006, 8010, and 8010co Chassis. Full slot support for all modules may be dependant on the presence of the High Performance (HP) Backplane. There is an orderable (and chargeable) upgrade option for the HP Backplane.

The following modules are not supported in the 8003 chassis:

  8692SF/CPU

  All R/RS modules

NOTE: R/RS-series modules are supported in the 8010co chassis only with a High Performance Backplane installed.

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

  Release Notes for the Ethernet Routing Switch 8600 Series Switch Software Release 5.1.0.0 (Doc # NN46205-402, Rev 3.01)

  Readme for Ethernet Routing Switch 8600 Series Switch Software Release 5.1.3.0. Release 5.1.3.9 has equivalent CR fix and open functionality as Release 5.1.3.0.

  Nortel Ethernet Routing Switch 8600 5.1 Upgrade Manual (Doc # NN46205-400, Rev 3.01)

  Nortel Ethernet Routing Switch 8600 Installation – Modules, for Software Release 5.1 (Doc # NN46205-304, Rev 3.02)

  Nortel Ethernet Routing Switch 8600 Administration, for Software Release 5.1 (Doc # NN46205-605, Rev 2.03)

  Nortel Ethernet Routing Switch 8600 Routine Maintenance, for Software Release 5.1 (Doc # NN46205-312, Rev 2.01)

Notes for Upgrade

Please see Upgrade Guide and Release Notes for the Ethernet Routing Switch 8600 Series Switch Software Release 5.1.0.0 available at www.nortel.com/support.

NOTE: If upgrading to 5.1.3.1 code within any SMLT designed network from a release prior to 4.1.8.2 or 5.0.1.0, i.e. a release which runs the 'older' SMLT architecture, then care should be taken to follow the proper upgrade steps. Please review the 5.1.0.0 or the 5.0.1.0 Release Notes for specific details.

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_5131.tar.gz	62052614
Ethernet Routing Switch images			
Boot monitor image	CPU and switch fabric firmware	p80b5131.img	1138872
Run-time image	Run-time image	p80a5131.img	12633396
Run-time image for R modules	Image for R modules	p80j5131.dld	1523484
Run-time image for RS modules	Run-time image for RS modules	p80k5131.dld	1581868
Run-time image for Enterprise Enhanced SF/CPU Daughter Card (SuperMezz)	Image for the SuperMezz card	p80m5131.img	12737182
3DES	Encryption module for privacy protocol with Secure Shell (SSH)	p80c5131.img	55928
AES	Encryption module for privacy protocol for SNMPv3. Includes AES and DES	p80c5131.aes (this image includes the DES image)	26947
MIB	MIB files	p80a5131.mib	4149831
MIB (zip file)	Zip file containing MIBs	p80a5131.mib.zip	674828
MD5 checksum file	md5 checksums of all Release 5.1 software files	p80a5131.md5	1358
Runtime image for ATM	Runtime image for the ATM module	p80t5131.dld	906024
Runtime image for POS	Runtime image for the POS module	p80p5131.dld	701771
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	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
SSL images			
SSL cluster upgrade	Ethernet Routing Switch 8600 clustered SSL modules self-installing runtime image/upgrade	p80s5131.pkg	5988896
SSL boot monitor	Ethernet Routing Switch 8600 SSL module boot monitor	p80s5131.img	7528448
SSL upgrade instructions	Ethernet Routing Switch 8600 SSL upgrade instructions	p80s5131.upgrade	1481
SSL installation instructions	Ethernet Routing Switch 8600 SSL installation instructions	p80s5131.install	2895
SSL diagnostics	Ethernet Routing Switch 8600 SSL diagnostics	p80s5131.diag	19460381
WSM images for Ethernet Routing Switch 8600			
WebOS firmware image	WSM WebOS v10.0.34.0 firmware image	wsm1003400_mp.img	845560
WebOS binary	WSM WebOS v10.0.34.0 binary image	wsm1003400_bin.img	1376256
WebOS boot image	WSM WebOS v10.0.34.0 boot image	wsm1003400_boot.img	43004
Device Manager images			
Solaris for SPARC image	Device Manager software image	jdm_6200_solaris_sparc.sh	
Microsoft Windows image	Device Manager software image	jdm_6200.exe	
Linux image	Device Manager software image	jdm_6200_linux.sh	
Service Delivery Module images			
Service Delivery Module Firewall	Boot ISO for the NSF Service Delivery Module Firewall booting from CD-ROM	NSF5100_2.3.7.0_SDM_R60.iso NSF5100_2.3.7.0_SDM_R65.iso	
	Upgrade package for the NSF Service Delivery Module Firewall	NSF5100_2.3.7.0_SDM_R60.pkg.gz NSF5100_2.3.7.0_SDM_R65.pkg.gz	
Service Delivery Module TPS	Boot image for TPS Intrusion Sensor	Nortel_TPS_Intrusion_Sensor-SDM-v4.5.0-627-Install.iso	
	Boot ISO for TPS Defense Center booting from CD-ROM	NortelTPSDefenseCenter_2x70v4.5.0_627_Install.iso	
	Upgrade script (patch) to upgrade TPS IS from 4.5.0 to 4.5.1.	Nortel_TPS_IS_Upgrade_4.5.0_to_4.5.1_Upgrade-47.sh	
	IS upgrade download verification file.	Nortel_TPS_IS_Upgrade_4.5.0_to_4.5.1_Upgrade-47.sh.md5	

Trace files			
MPLS trace file	Trace file for MPLS. This is auto generated and appears on the PCMCIA after upgrade.	nbpdtrc.lo0	variable

Version of Previous Release

Software Version **5.1.3.0**

Compatibility

This software release is managed with Java Device Manager (JDM) release 6.1.8.0 or higher.

This software release supports the Web Switching Module (WSM) release WebOS 10.0.34.0. This code is found on Nortel web site under Content Networking -> Web Switches -> Ethernet Routing Switch Web Switch Module.

This software release supports SDM FW Release up to 2.3.7.0. This code is found on Nortel web site under Security & VPN -> Service Delivery Module 8660, which provides a link to CheckPoint web site.

This software release supports SDM TPS Release up to 4.7.0.2. This code is found on Nortel web site under Security & VPN -> Service Delivery Module 8660.

To download any of these code releases requires valid Nortel support web access, as well as valid CheckPoint support site access for most FW code.

Changes in This Release

New Features in This Release

None.

Old Features Removed From This Release

None.

Problems Resolved in This Release

Platform

8692 CP boards with the new PCMCIA controller could experience high cpu utilization and other systemic effects while accessing certain types of PCMCIA cards. The problem has now been addressed. (wi00564790)

Outstanding Issues

Please refer to the Outstanding Issues Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 5.1.3.0. 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 5.1.3.0. No other new known limitations have been found.

Documentation Corrections

None.