



Ethernet Routing Switch 8600 Software Release Notes

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Ethernet Routing Switch 8600 Software Release 5.1.1.1

1. Release Summary

Release Date: October 2009

Purpose: Software maintenance release to address software issues found both in the field and internally.

2. Important Notes before Upgrading to This Release

If upgrading to 5.1.1.1 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 4.1.8.2 Readme or 5.0.1.0 RN for specific details.

REGARDLESS OF SOFTWARE VERSION, the system-monitor flag should be checked on all systems to be sure it is enabled. This flag should always be enabled. The flag setting can be checked via the command, show config. The display should be something like:

```
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 (requires a reboot to take affect), which can only be accomplished by JDM, 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 <ip address> enterprises.2272.1.4.41.0 1
```

Where <ip address> is an IP address associated with the switch. Change the SNMP community "public" in this example to the SNMP read-write community used on this switch.

To view the setting via SNMP use:

```
snmpget -v 1 -c public <ip address> 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)

REGARDLESS OF SOFTWARE VERSION, the SNMP timer task may 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 is 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  
(Q02052753 – the fix for this will be in the future 5.1.2.0 code)
```

3. 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 Backplane. There does exist an upgrade option for the HP Backplane.

The following modules are not supported in the 8003 chassis:

- 8692SF/CPU

- All R/RS modules

Please refer to the following documents for details on the Platforms Supported:

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

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

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

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

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

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

4. 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.

5. 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_5111.tar.gz	61981964
Ethernet Routing Switch images			
Boot monitor image	CPU and switch fabric firmware	p80b5111.img	1138336
Run-time image	Run-time image	p80a5111.img	12606645
Run-time image for R modules	Image for R modules	p80j5111.dld	1518464
Run-time image for RS modules	Run-time image for RS modules	p80k5111.dld	1578012
Run-time image for Enterprise Enhanced SF/CPU Daughter Card (SuperMezz)	Image for the SuperMezz card	p80m5111.img	12709219
3DES	Encryption module for privacy protocol with Secure Shell (SSH)	p80c5111.img	55928
AES	Encryption module for privacy protocol for SNMPv3. Includes AES and 3DES	p80c5111.aes (this image includes the 3DES image)	26947

MIB	MIB files	p80a5111.mib	4149308
MIB (zip file)	Zip file containing MIBs	p80a5111.mib.zip	674714
MD5 checksum file	md5 checksums of all Release 5.1 software files	p80a5111.md5	1358
Runtime image for ATM	Runtime image for the ATM module	p80t5111.dld	906024
Runtime image for POS	Runtime image for the POS module	p80p5111.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	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
SSL images			
SSL cluster upgrade	Ethernet Routing Switch 8600 clustered SSL modules self-installing runtime image/upgrade	p80s5111.pkg	5988896
SSL boot monitor	Ethernet Routing Switch 8600 SSL module boot monitor	p80s5111.img	7508448
SSL upgrade instructions	Ethernet Routing Switch 8600 SSL upgrade instructions	p80s5111.upgrade	1481
SSL installation instructions	Ethernet Routing Switch 8600 SSL installation instructions	p80s5111.install	2895
SSL diagnostics	Ethernet Routing Switch 8600 SSL diagnostics	p80s5111.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_6180_solaris_sparc.sh	237137138
Microsoft Windows image	Device Manager software image	jdm_6180.exe	213143936
Linux image	Device Manager software image	jdm_6180_linux.sh	216329458
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

6. Version of Previous Release

Software Version **5.1.1.0**

7. 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.

8. Changes in This Release

New Features in This Release

None.

Old Features Removed From This Release

None.

Problems Resolved in This Release

Switch management

Network reachability testing via ICMP/ping will no longer show different results when used via either Out of Band connectivity (console or OOB Ethernet port) or when used via an Inband (telnet/SSH, etc.) connection, as was previously seen. (Q02057984-01)

Platform

Previously certain IST message handling could be delayed by other system functions, thereby potentially causing IST instability (up/down/up). As well, system instability associated with SMLT (IST Peers) in association with high CPU utilization and potentially SLPP operations have both now been resolved. For those who disabled SLPP on their systems/network, SLPP can now be re-enabled with the 5.1.1.1 release. (Q02055292-02/Q02053200/Q02055101/Q02066500)

MSTP

For an MSTP enabled system, port disable and enable scenarios, where the cistforceport state is disabled on the port, will now be handled properly and in turn OSPF will behave normally. (Q02064812)

IP Unicast

Static Routes

Static routes usage in a VRF configured system for non-default VRFs (non-VRF 0 usage) will no longer cause a spike in CPU utilization. Now even after reboot all the static routes will remain active and CPU utilization will remain normal. This situation was introduced in 5.1.1.0 code, so only applies to that specific release. (Q02060978-03)

MLT / SMLT

Previously unicast traffic could be flooded with the VLAN when some SMLT/RSMLT associated link failed; this is now resolved. (Q02037171)

9. Outstanding Issues

Please refer to the Outstanding Issues Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 5.1.1.0. No new outstanding issues have been found in regards to the 5.1.1.0/5.1.1.1 releases.

10. Known Limitations

Please refer to the Known Limitations Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 5.1.0.0. No new known limitations have been found in regards to the 5.1.1.0/5.1.1.1 releases.

11. Documentation Corrections

Dual MLTs in SMLT designs are supported, as long as only one is configured as an IST_MLT (system will not allow mis-configuration), and as long as any use of any form of spanning tree and the VLANs/ports associated with this form of spanning tree, remain solely on the non-IST_MLT; there can be no association or interaction with the IST_MLT. (Q02047748)



Ethernet Routing Switch 8600 Software Release 5.1.1.0

1. Release Summary

Release Date: 7 August 2009

Purpose: Software maintenance release to address software issues found both in the field and internally.

2. Important Notes before Upgrading to This Release

If upgrading to 5.1.1.0 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 4.1.8.2 Readme or 5.0.1.0 RN for specific details.

REGARDLESS OF SOFTWARE VERSION, the system-monitor flag should be checked on all systems to be sure it is enabled. This flag should always be enabled. The flag setting can be checked via the command, show config. The display should be something like:

```
ERS8600:6# show config
```

```
Preparing to Display Configuration...
```

```
#!flags m-mode false
```

```
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```

```
#!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 potential 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 (requires a reboot to take affect), which can only be accomplished by either JDM, 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
```

```
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)

REGARDLESS OF SOFTWARE VERSION, the SNMP timer task may 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 is 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  
(Q02052753 – the fix for this will be in future 5.1.x code)
```

3. 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 Backplane. There does exist and upgrade option for the HP Backplane.

The following modules are not supported in the 8003 chassis:

- 8692SF/CPU
- All R/RS modules

Please refer to the following documents for details on the Platforms Supported:

- Release Notes for the Ethernet Routing Switch 8600 Series Switch Software Release 5.1.0.0 (Doc # NN46205-402, Rev 3.01)
- Nortel Ethernet Routing Switch 8600 5.1 Upgrade Manual (Doc # NN46205-400, Rev 3.01)
- Nortel Ethernet Routing Switch 8600 Installation - Modules Manual for Software Release 5.1 (Doc # NN46205-304, Rev 3.02)
- Nortel Ethernet Routing Switch 8600 Administration Manual for Software Release 5.1 (Doc # NN46205-605, Rev 2.03)
- Nortel Ethernet Routing Switch 8600 Routine Maintenance Manual for Software Release 5.1 (Doc # NN46205-312, Rev 2.01)

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

4. 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.

5. 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_5110.tar.gz	59 M
Ethernet Routing Switch images			
Boot monitor image	CPU and switch fabric firmware	p80b5110.img	1.1 M
Run-time image	Run-time image	p80a5110.img	12 M
Run-time image for R modules	Image for R modules	p80j5110.dld	1.4 M
Run-time image for RS modules	Run-time image for RS modules	p80k5110.dld	1.5 M
Run-time image for Enterprise Enhanced SF/CPU Daughter Card (SuperMezz)	Image for the SuperMezz card	p80m5110.img	12 M
3DES	Encryption module for privacy protocol with Secure Shell (SSH)	p80c5110.img	55K
AES	Encryption module for privacy protocol for SNMPv3. Includes AES and 3DES	p80c5110.aes (this image includes the 3DES image)	26 K

MIB	MIB files	p80a5110.mib	4.0 M
MIB (zip file)	Zip file containing MIBs	p80a5110.mib.zip	659 K
MD5 checksum file	md5 checksums of all Release 5.1 software files	p80a5110.md5	1.3 K
Runtime image for ATM	Runtime image for the ATM module	p80t5110.dld	885 K
Runtime image for POS	Runtime image for the POS module	p80p5110.dld	685 K
Firmware images			
FOQ for R modules	Feedback output queuing FPGA firmware	foq267.xsvf	5.1 M
BMC for R modules	BAP memory controller FPGA firmware	bmc776.xsvf	2.5 M
DPC for R modules	Dual port Controller FPGA firmware	dpc184.xsvf	2.5 M
PIM8630GBR	Programmable I/O module FPGA firmware; for the 8630GBR only	PI_769.xsvf	2.2 M
Firmware for RS modules	Contains FOQ, BMC, DPC, mirroring, and loopback images	rs_dpm_fpga.bin	4.3 M
PIM images for RS modules	PIM FPGA firmware required for 8612XLRS module only	pim8612XLRS.bin	59 K
	PIM FPGA firmware required for 8634XGRS module only	pim8634XGRS.bin	76 K

	PIM FPGA firmware required for 8648GBRS module only	pim8648GBRS.bin	78 K
	PIM FPGA firmware required for 8648GTRS module only	pim8648GTRS.bin	53 K
SSL images			
SSL cluster upgrade	Ethernet Routing Switch 8600 clustered SSL modules self-installing runtime image/upgrade	p80s5110.pkg	5.7 M
SSL boot monitor	Ethernet Routing Switch 8600 SSL module boot monitor	p80s5110.img	7.2 M
SSL upgrade instructions	Ethernet Routing Switch 8600 SSL upgrade instructions	p80s5110.upgrade	1.4 K
SSL installation instructions	Ethernet Routing Switch 8600 SSL installation instructions	p80s5110.install	2.8 K
SSL diagnostics	Ethernet Routing Switch 8600 SSL diagnostics	p80s5110.diag	19 M
WSM images for Ethernet Routing Switch 8600			
WebOS firmware image	WSM WebOS v10.0.34.0 firmware image	wsm1003400_mp.img	826 K
WebOS binary	WSM WebOS v10.0.34.0 binary image	wsm1003400_bin.img	1.3 M
WebOS boot image	WSM WebOS v10.0.34.0 boot image	wsm1003400_boot.img	42 K
Device Manager images			

Solaris for SPARC image	Device Manager software image	jdm_6180_solaris_sparc.sh	237137138
Microsoft Windows image	Device Manager software image	jdm_6180.exe	213143936
Linux image	Device Manager software image	jdm_6180_linux.sh	216329458
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

6. Version of Previous Release

Software Version **5.1.0.0**

7. 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.

8. Changes in This Release

New Features in This Release

With this release, ERS 8600 introduces new commands to better handle receiving bad OSPF LSAs. The Switch will have an option to configure the way the router behaves on receiving a bad LSA. There are now different options on how to handle a received BAD LSA (with hole in mask). This can affect how adjacency is formed to other routers in the network. (Q01997413)

The following commands have been implemented for this new functionality:

config ip ospf bad-lsa-ignore <enable|disable>

To enable the Switch to keep accepting the bad LSAs (with hole in mask) use the following CLI command (default behavior is disable):

config ip ospf bad-lsa-ignore enable

Alternatively use the following NNCLI command:

bad-lsa-ignore enable

Other associated NNCLI commands would be:

**no bad-lsa-ignore [enable]
default bad-lsa-ignore [enable]**

Setting the ospf bad-lsa-ignore parameter to enabled maybe required to maintain adjacency with other non-Nortel switch/routers, especially Cisco models.

The same commands under VRF configuration mode are for CLI:

config ip vrf <vrf-id> ospf bad-lsa-ignore <enable|disable>

and for NNCLI:

ip ospf bad-lsa-ignore enable

as well as:

**no ip ospf bad-lsa-ignore enable
default ip ospf bad-lsa-ignore [enable]**

To execute these commands OSPF needs to be disabled globally first. There is no JDM support for these commands at this time.

Old Features Removed From This Release

None.

Problems Resolved in This Release

Switch management

ERS 8600 will no longer experience VRRP transitions, ping failures or potential OSPF slowdown or failure when there is binary transfer of a file via FTP or TFTP with a file size greater than the free memory available on the flash. ERS 8600 could previously experience these issues while its CPU utilization was high. (Q01978884-02)

Switch will no longer show system instability on quitting from a SSH session, even if a SSH File Transfer Window is opened from the existing SSH session more than once. However the ERS 8600 still does not support any File Transfers from a SSH session. (Q01856195-03)

ERS 8600 no longer allows adding a route in net mgmt table, if the same route already exists in the normal routing table (due to some routable VLAN or static configuration). (Q01987429-02)

Platform

ERS 8600 no longer allows (a guard rail has been added) port mirroring from Legacy Port to GTR/GTRS port in "Rx mode" and "both mode". An invalid port number or failed message will be returned to the user. This operation is allowed for Tx mode only. (Q01790729-02)

ERS 8600 no longer experiences unexpected Mezz CPU failover with the Mezz card enabled and then saving the configuration via JDM. (Q01981161-01)

The potential for traffic interruption associated with the Gig ports on the 8634XGRS module has now been resolved. (Q02010160-03)

ERS 8600 console will now no longer spool repeated messages of AA1419049-E6 (LX) SFP insertion after a switch reboot. (Q01940440-02)

ERS 8600 will now be able to properly detect all versions of the AA1419049-E6 SFP (1000Base-LX) even after any switch reboot. (Q01980528-02)

Link flap detect feature is now supported for R-modules cards. (Q01783494)

IP Unicast

RIP

For ERS 8600, the set metric parameter in a route-policy will now take effect for RIP. (Q01959361-02)

BFD

On an ERS 8600 running a BFD session over a static route, when a BFD failure occurs the static route will no longer get learned in the routing table, even when the ARP for next-hop is present until the BFD session gets re-established again. (Q02010174)

BGP

Operational problems with BGP software that could have led to system instability issues have been resolved. (Q02026274 and Q01972590)

OSPF

OSPF routes will no longer get improperly deleted even while routes are getting added with ECMP enabled. (Q02021239)

MLT / SMLT

In RSMLT edge support enabled mode, the creation of a new RSMLT enabled VLAN interface **only on one aggregation box** will no longer cause the static default route to get deleted from the hardware, and thereby affect RSMLT forwarding and re-convergence time. (Q02005454-02)

In a dual SF/CPU configuration, when the last CP card is pulled out or fails, the RS I/O modules will now have their entire ports drop link automatically. This will help in any SMLT designed network to provide better and faster recovery. (Q01991517-02)

The ERS 8600 will now check for the SMLT status of an MLT only if it is configured as an SMLT, while sending a MAC-address-learn message for any MAC learnt on the MLT. If the MLT is not configured for SMLT, then SMLT status will not be checked and an MAC-address-learn message will be sent to the IST peer. (Q02036964)

8600 will now update the ARP when a MAC learn message is received from IST peer, irrespective of whether the MAC is already existing as local or not. This reduces the chances of improper forwarding in SMLT/RSMLT designed networks. (Q02044582)

Multicast Routing Protocol

PIM

ERS 8600 will now properly forward packets to the DR when the egress port to the DR is the same as the incoming port and the port to the DR changes for some reason. (Q01907611-04)

9. Outstanding Issues

Please refer to the Outstanding Issues Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 5.1.0.0. Additionally, the following issues will be fixed in a future release.

Platform

The change for CR 1767930 which is related to proper operation of SCP (Secure Copy) while using Access Policies, which was fixed in the 4.1.x stream back in 4.1.6.3, is missing from all 5.x streams. This will be resolved in all future 5.x code streams, but is still missing in 5.1.1.0.

Configuration

While configuring ds-field under "config ip traffic-filter filter <filter-id> match", if we give the six dscp bits, it is taking the command improperly. (Q02056382)

MLT

An MLT with LACP enabled along with min-link configured, may not have ports added to the MLT properly. (Q02034692)

STATIC ROUTE

When a static route is created within the non-default VRF, it may not become active and high number of such static routes may lead to increased CPU utilization. For system running with only the default VRF (VRF 0) this is of no concern. For those running with multiple VRFs, use of static routes in the non-default VRF (outside of VRF 0) should be limited or not used at all; instead use some routing protocol, such as OSPF or RIP. (Q02060978)

10. Known Limitations

Please refer to the Known Limitations Section of the Release Notes for Ethernet Routing Switch 8600 Software Release 5.1.0.0. Additionally, the following issues have also been classified as operation not to be changed.

Switch management

"Secret" is no longer the default SNMP community string for read/write access. Instead there is none and it needs to be configured via CLI before SNMP can be used. This has been the operation for some time now, not just introduced with 5.1.1.0 code. (Q02049550)

Clients may lose connectivity when filters are applied on tagged ports, with default port action of drop. Such a configuration is not supported. Instead use filter configuration of default port action of forward and drop filters. (Q01906338-02)

SNMP-generated traps are not being processed by the MDM Carrier Management station, due to a checksum error in the UDP packets. This situation will NOT be seen if the source IP used in the SNMP Sender-IP parameter is some Circuitless IP address. (Q02047909)

11. Documentation Corrections

Dual MLTs in SMLT designs are supported, as long as only one is configured as an IST_MLT (system will not allow mis-configuration), and as long as any use of any form of spanning tree and the VLANs/ports associated with this form of spanning tree, remain solely on the non-IST_MLT; there can be no association or interaction with the IST_MLT. (Q02047748)

The command `config sys set snmp-ip` no longer will accept an IP address of value 0.0.0.0, which would be illegal to start with. (Q02062013)

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