

Ethernet Routing Switch 8600 Readme

Software Release 5.1.6.0



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Software Release 5.1.6.0

Release Date: June 10th, 2011

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

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.

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 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

#!flags r-mode true
#!resource-reservation max-vlan false
#!resource-reservation multicast 2048
#!flags multicast-check-packet true

#!flags system-monitor true (enabled)

#!flags regular-Autoneg false #!record-reservation filter 4096 or potentially false (disabled)

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)

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 dependent 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 5.0.5.0. Release 5.1.2.0 has equivalent CR fix functionality as Release 5.0.5.0.
- 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.

<u>NOTE</u>: If upgrading to 5.1.6.0 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 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_5160.tar.gz	62599951
Ethernet Routing Switch ima	nges		L
Boot monitor image	CPU and switch fabric firmware	p80b5160.img	1141375
Run-time image	Run-time image	p80a5160.img	12797952
Run-time image for R modules	Image for R modules	p80j5160.dld	1618376
Run-time image for RS modules	Run-time image for RS modules	p80k5160.dld	1675956
Run-time image for Enterprise Enhanced SF/CPU Daughter Card (SuperMezz)	Image for the SuperMezz card	p80m5160.img	12897585
3DES	Encryption module for privacy protocol with Secure Shell (SSH)	p80c5160.img	55928
AES	Encryption module for privacy protocol for SNMPv3. Includes AES and DES	p80c5160.aes (this image includes the DES image)	26947
MIB	MIB files	p80a5160.mib	4391082
MIB (zip file)	Zip file containing MIBs	p80a5160.mib.zip	694786
MD5 checksum file	md5 checksums of all Release 5.1 software files	p80a5160.md5	1358
Runtime image for ATM	Runtime image for the ATM module	p80t5160.dld	906024
Runtime image for POS	Runtime image for the POS module	p80p5160.dld	701771
Firmware images	1		<u> </u>
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



Discrete Discrete	4538368 60183
RS modules Module only	
module only PIM FPGA firmware required for 8648GBRS pim8648GBRS.bin PIM FPGA firmware required for 8648GTRS pim8648GTRS.bin PIM FPGA firmware required for 8648GTRS pim8648GTRS.bin SSL images SSL cluster upgrade Ethernet Routing Switch 8600 clustered SSL modules self-installing runtime image/upgrade SSL boot monitor Ethernet Routing Switch 8600 SSL module boot p80s5160.img	
module only PIM FPGA firmware required for 8648GTRS pim8648GTRS.bin SSL images SSL cluster upgrade Ethernet Routing Switch 8600 clustered SSL modules self-installing runtime image/upgrade SSL boot monitor Ethernet Routing Switch 8600 SSL module boot p80s5160.img	78173
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	7528448
SSL upgrade instructions	1481
SSL installation instructions Ethernet Routing Switch 8600 SSL installation p80s5160.install 2	2895
SSL diagnostics Ethernet Routing Switch 8600 SSL diagnostics p80s5160.diag	19460381
WSM images for Ethernet Routing Switch 8600	
WebOS firmware image WSM WebOS v10.0.34.0 firmware image Wsm1003400_mp.img	1376256
WebOS binary WSM WebOS v10.0.34.0 binary image Wsm1003400_bin.img	43004
WebOS boot image WSM WebOS v10.0.34.0 boot image Wsm1003400_boot.img 8	845560
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 NSF5100_2.3.7.0_SDM_R60.iso NSF5100_2.3.7.0_SDM_R65.iso	
Upgrade package for the NSF Service NSF5100_2.3.7.0_SDM_R60.pkg.g	
Service Delivery Boot image for TPS Intrusion Sensor Nortel_TPS_Intrusion_Sensor-SDN v4.5.0-627-Install.iso	gz



Module TPS	Boot ISO for TPS Defense Center booting from CD-ROM	NortelTPSDefenseCenter_2x70v4.5.0_62 7_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	race files		
MPLS trace file	Trace file for MPLS. This is auto generated appears on the PCMCIA after upgrade.	·	

NOTE: dpc194.xsvf is a new DPC FPGA image for R-modules that can only be used with post 5.1.3GA release. 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 Versions 5.1.5, **5.1.4**, **5.1.3**, **5.1.2**, **5.1.1.1** and **5.0.5.0**

Compatibility

This software release is managed with Java Device Manager (JDM) release 6.2.1.3 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

- Enabling the WAN mode option on the 8683XZR card now functions correctly. While the enable/disable
 commands for WAN mode are displayed for the 8612XLRS and the 8683XLR card types, the system
 responds with appropriate error message indicating that WAN mode is cannot be enabled on these cards
 types. (wi00870205)
- Broadcast and multicast traffic that should be flooded within a VLAN is no longer forwarded out the same MLT as it arrived if the ingress port is in the port range 41-48 on an 8648GTR or 8648GTRS card. (wi00867614)
- Packets with an unknown SRC MAC were dropped in RSP in some packet learning scenarios where an IST link was configured on the first port of a lane. (wi00866355)
- HAL INFO GBIC inserted in slot x Port x Type:Gbic1310(Lx) message may appear in the log randomly when a 8630R module is installed. (wi00858345)
- Ports 41 to 48 of 8648GTR card would egress all the traffic only on Queue 0 regardless of DSCP marking or any port DiffServ settings. (wi00856177)
- A CPU reset may occur if the switch attempts to send TCP packets whose destination matches a static blackhole entry in the routing table. The static route is configured with a nexthop = 255.255.255.255 and pref = 255. (wi00854617)
- CP may crash when it is continuously reading or writing the port register of legacy E-Module while the line card is being physically removed from the chassis. (wi00853206)
- TCP port 111 no longer accepts connections in order to avoid potential security concerns. (wi00852411)
- When enabled, the "untagged-frame-discard" feature on a port now properly discards untagged broadcast frames if VLACP is enabled on the port. (wi00846353)
- A message buffer handling interaction has been addressed that could lead to the ERS8600 very infrequently generating a core file or appearing to hang during a reboot and display the log message "Master CP failed before table synchronization." (wi00845719)
- When a XD SFP is present on a port that is a member of an MLT, the ERS8600 will now allow additional
 ports housing different XFP types to be added to the MLT. Previously if the GBIC type in the other MLT
 ports was anything other than type "Gbic1310Xd" the system would generate the message " Error: MLT
 ports different types" and prevent any port housing Non XD SFPs from being added to the MLT.
 (wi00843343)
- Switch over to a warm standby CPU can fail if a legacy card is present and ARP packets are received during the memory test portion of the CPU initialization sequence. (wi00834470)



When performing an snmpwalk of the MIB rcPortVLacpPortState, the first operationally up (VLACP UP) port
will always show **DOWN**, instead of its correct UP state. This is a monitoring only issue and is not service
impacting. (wi00819545)

CLI/NNCLI

- When accessing the ERS8600 via SSH in ACLI mode, using the option "q" to abort the display of paged command output will no longer prevent subsequent output for any commands in that session. (wi00884376)
- A Config file with a space in the string parameter of the msg-control force-msg configuration will not load properly during a reboot. (w i00876846)
- ERS 8600 no longer reboots or freezes when an MD5 command is entered using an invalid filename. (wi00853274)
- In ACLI mode, configuration changes to the RIP attributes, listen and supply are now properly saved in the configuration file. (wi00733748)

Filters

- ERS8600 with Filters configured no longer generate the software Error message, "COP-SW-FILTER
 ERROR Slot x: ercdFilterGetStatsCtrBlk: Failed!! Ingress Filter Stats Counter Memory is FULL". This error
 message is changed to trace message. (wi00847628).
- When enabling port mirroring on an RS module port where a traffic filter(ACL) is configured which specifically contains a "port add" clause, high levels of packet discards are no longer encountered on the data path. This issue was not encountered with using inVlan ACLs. (wi00852577)
- When using debug mirroring through a filter on an RS card traffic impact and card resets no longer occur. This issue was previously encountered intermittently if filter statements such as "filter acl <X> ace
 <Y> debug count enable mirror enable" are used without a corresponding destination in the ACE record. (wi00854540)
- QOS policed configurations will now allow the deletion of a configured ACL after HA failover. (wi00854642)
- Port mirroring mode can now be set to rxFilter separately when mirroring legacy ports. This mode is not applicable to R or RS module ports. (wi00856197)

IP

- An OSPF network configured with non-unique OSPF router id may trigger the ERS8600 to reset if it
 receives a NET_LINKS packet from a remote router whose ID is the same as one directly connected to the
 ERS8600. (wi00858330)
- The ERS8600's IP Spoof-detect feature does not properly protect the VRRP IP address in the network. (wi00857095)
- In a stable, converged network, VRRP backup node need not start the Hold Down Timer to become Master. The VRRP Hold Down Timer is now only started on node recovery. (wi00856647)



DHCP

 The ARP entry of an end device was being removed from the ARP table upon reception of a DHCP renew response packet (ACK) from the DHCP Server. This can cause a brief outage as the ARP entry needs to be re-populated at this time. Since this is not a new IP address, just a renewal of the IP address lease the ARP entry now remains in place. (wi00866471 and wi00866465)

IP Multicast

MLT / SMLT

- Addition and deletion of static Mac entries on an SMLT in SMLT up state may result in stale software and hardware Mac entries. (wi00867171)
- Traffic prioritization (QOS) when using MLT's with an ID > 96 default to QOS of 0. (wi00859025)
- When the destination MAC address is learned (unicast case), Packets coming on the IST ports should not be forwarded to SMLT when SMLT remote is up and packets come from the same SMLT. (wi00852563)

BGP/VRF

- Configuring BGP route redistribution requires a valid advanced or premier license if fewer than 10 BGP peers are configured. (WI00871534)
- A BGP peer remains in an idle state after a link state transition if running over a link with BFD enabled and the BFD holdoff timer is configured. (wi00863051)

PIM

- When multicast traffic is sent to two directly connected switches A and B, where switch A is the PIM
 designated router and switch B is connected to a third switch attached to a PIM receiver, a prune sent from
 switch B to switch A is now accepted. Previously this prune message was not handled properly and
 resulted in duplicate traffic on Switch B, (wi00850153)
- In a square router configuration (non-SMLT) where a prune message is forwarded toward the Rendezvous Point via a different router than the one in IPMC Source Path Tree, the prune is now properly forwarded and duplicate traffic is not encountered. . (wi00871265)

RADIUS

 When using RADIUS authentication, a password set to more than 16 characters may be truncated to 16 characters when the RADIUS packet is generated.(wi00850719)



Outstanding Issues

- ERS 8600 CPU might lock up sometimes, when ssh/cli logging is enabled. (wi00869014)
- DHCP client fails to obtain IP address when DHCP snooping is enabled on ERS8600.(wi00855202)
- Configuration of "qos egress-queue-set" should be applied before continuing with further configuration. In order to avoid issues with displaying the gos egress queue set..(wi00874096)
- During frequent MAC address port transitions between MLT's, the MAC Addresses entries in the FDB, and ARP tables may point to different ports. (wi00885468)
- Disabling/Enabling BFD on BGP peer does not work when using the BGP Peer Group name. (wi00880674)
- Secure CRT Application running a VB Script causes the 8600 crash if the "dir" command is issued immediately after running the script (wi00875804)
- High Cpu utilization may occur if both rmon and mezz are enabled. (wi00876875)
- SNMP Table traversal is slower with Bulk requests. Bulk Requests are supposed to be significantly faster than traversing the same table with Get-Next requests (wi00882843)
- Incorrect XFP type shown sometimes in logs when an XFP is removed/reinserted into the switch. (wi00869323)
- Gig ports on 8634 XGRS card are not sending Remote Line Fault (RLF) clear signal to MSS 15K.
 Whenever the ERS is powered down and then powered up some of the gigE ports do not recover, although on the 8634XGRS it shows UP on all the ports. (wi00875414)
- Icmp, dhcp, telnet, snmp, and arp-reply protocol packets sourced from CP are all marked with priority 7. (wi00870809)
- Link state transitions encountered on on 10Gig ports provide no state change reason in the log file, (wi00884896)
- The outputs of "Show", and Config info" commands for DDM monitor display different state information for DDM. (wi00881819)
- When a non DDI SFP is present in an 8630GBR line card, upon boot spurious log messages are displayed for each of the ports with no SFPs present on that lane. These log messages are innocuous and has no service impact on the functioning of the switch. (Wi00893204)
- Under the following circumstances a DDI HW-Read-error is received on DDI capable SFPs on the switch running software 5.1.5.1 or greater. When the DDI capable SFP is present but the fiber is not present or the remote end is down when the administrator queries the status via CLI or JDM the HW read error is received. (Wi00891162)



Known Limitations

The three tables **ipMRouteTable**, **ipMRouteNextHopTable** and **ipMRouteInterfaceTable** are not supported in the ERS8600 5.1.6.0 release. As the implementation to fully support these MIBS and collect data for them is not present in the code, access to these MIBS will be removed from the next release.

Alternative functionality:

The ERS8600 provides the proprietary MIBS rclpMRouteStatsTable, rclpMrouteHwEgressVlansTable, and rclpMrouteHwSourcesTable which support the similar functionality.

Documentation Corrections

A new "built-in" filtering access control template (ACT), VPS DEFAULT ACT (4080) has been added and will be included in an update to the **Configuration — QoS and IP Filtering Guide.**

The following note will be added to the **Installation — SFP**, **XFP**, **GBIC**, **and OADM Hardware Components Guide**

Digital Diagnostic Monitoring (DDM) is not available non-Nortel/Avaya SFPs.



Software Release 5.1.5.0

Release Date: March 04th, 2011

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

Changes in This Release
New Features in This Release
DfO KHI

ACLI

Old Features Removed From This Release

None.

Problems Resolved in This Release

Platform

- If all the MGIDS are exhausted in the system and the port which is part of the vlan is enabled/disabled, then the MGID Errors are seen even though there are no provisioning errors encountered while configuring. This issue is resolved by avoiding the check for free MGIDs while enabling/disabling the port. (wi00732528)
- QOS mapping configuration is not in sync between Master and Slave after HA Failover. This is due to incorrect table sync for the QOS Mapping Parameters. This issue resolved (Wi00698375)

VLACP

- The "time-out" scale for VLACP protocol to bring the port down was miscalculated and taking twice the time of configured value. This issue have been rectified. (Wi00728743).
- The periodic timer interval for sending VLACP Hellos was miscalculated and taking twice the time of configured value. This issue have been rectified. (Wi00728749)



Software Release 5.1.4.0

Release Date: December 03rd, 2010

Changes in This Release

New Features in This Release

VLACP HOLD Enhancement

During SMLT node failure scenarios, traffic loss may be observed in certain scaled SMLT configurations with hundreds of SLTs, hundreds of ports and tens of VLANs. The root cause for the traffic loss was that the ERS8600 ports would come up prematurely at the physical layer causing the remote end to start sending traffic toward the ERS8600 that just came up. On the ERS8600 that just rebooted, the communication between the line cards and the CP may take several seconds in such scaled configurations. This resulted in black-holing the traffic arriving on such ports which were physically up but all operational configuration was not yet performed on those ports by the CP. The VLACP SUBTYPE HOLD feature introduces a new VLACP PDU with a new subtype HOLD to help reduce traffic loss in such scenarios.

The goal of this new implementation is to "hold down" all VLACP enabled links for a specific period of time after a reboot. This prevents remote VLACP enabled devices that understand the new VLACP HOLD PDU from sending data to the ERS8600. This will ensure that all VLACP enabled ports on the ERS8600 have had sufficient time to come up with all operational configuration and are ready to receive and forward the ingress traffic.

ERS8600 switches with 5.1.4.0 release are capable of both sending and receiving VLACP HOLD PDUs. Future code revisions of the Baystack switch family will support receipt and processing of VLACP HOLD PDUs, but will not generate them. Please refer to the applicable product release notes for information regarding product specific software levels required for support of this VLACP enhancement. VLACP is an Avaya proprietary protocol and hence this enhancement in not applicable when connecting to switches from other vendors.

By default, the VLACP HOLD feature will be disabled. The feature is enabled by configuring a positive value for VLACP HOLD Time. The VLACP Hold Time value configured should be selected based on the specific recovery implementation requirements, size and recovery characteristics for your network implementation.

The following new CLI commands are introduced to support:

```
ERS-8610:6/config/vlacp#?
Sub-Context:
Current Context:

   disable
   enable
   info
   hold-time <seconds>

ERS-8610:6/config/vlacp# hold-time ?
value in seconds for hold time
```



```
Required parameters:
<seconds>
           = vlacp hold time {0..60}
Command syntax:
hold-time <seconds>
ERS-8610:6/config/vlacp# info
             Vlacp
                        : enable
             Vlacp hold-time : 20
ERS-8610:6/show/vlacp# info
______
                   Vlacp Global Information
______
          SystemId: 00:18:b0:5c:a0:00
             Vlacp
                        : enable
```

SLPP Enhancement

• Introduced New EtherType for SLPP PDU:

From this release EtherType 0x8104 is replaced by 0x8102 as the default EtherType for SLPP PDUs. SLPP EtherType can still be configured through CLI. Old EtherType 0x8104 will be processed to handle the backward compatibility and upgrade scenarios.

Vlacp hold-time: 20

If the received ether type is old default ether type (0x8104) or current default ether type (0x8102) or currently configured ethertype, then the packet is classified as SLPP PDU.



The Ethertype can be displayed using following existing CLI command.

CLI Command:

config slpp info

Sub-Context:

Current Context:

add :

etherType (hex) : 0x8102

operation : disabled

tx-interval: 500

• Re-Arm per port SLPP PDU Receive Counter issue:

Currently per-port SLPP PDU receive counter is never reset, resulting in shutting down links wrongly after months of running when the counter hit the pre-defined limit. This issue has been addressed in this release by resetting the counter if the switch not received expected number of SLPP packets on the port in a certain period of time. This timer is set to 24 hours.

Old Features Removed From This Release

None.

Problems Resolved in This Release

Platform

- 8648GTR and 8648GTRS modules do not negotiate speed and duplex as expected once Customizable Auto-negotiation Advertisements (CANA) has been used on to limit link speed on a port and is subsequently disabled on that port. This issue is resolved (wi00518718)
- When PCAP is enabled and disabled, a control bit in fast path was not cleared correctly. This results in
 packets received on the port that had been monitored through PCAP being forwarded to the CP incorrectly
 and potentially cause high CPU utilization. This issue is resolved (wi00564156)
- In prior releases, a timing issue existed in single CPU systems where physical reseating of the CPU card would result in a COP-SW Exception event to be copied to the CPU during switch recovery. To avoid this scenario, the chassis should be power cycled rather than reseating the single CPU. (wi00508448)
- Port based shaper functionality may be disabled in hardware for R/RS modules after a port state change.
 This issue is resolved (wi00564813)
- SNMP get failed on rclpfixExporterStatsTable since the length field passed in the OID is not supported by the agent code. This issue is resolved (wi00564237).
- For tagged ports, the QoS queue mapping for Layer 3 packets received on R/RS modules has been corrected to align with E-modules. (wi00518702).
- In prior releases, a very rare scenario exists where the system monitor could potentially incorrectly detect the tTrapD task to be in an infinite loop and initiate recovery action. This issue is resolved (wi00508402).



- If 'ctrl-C' is entered at certain points in the boot up sequence the normal boot sequence is aborted and the
 user is entered into the shell access level of the switch. Sending 'ctrl-C' no longer results in user access to
 the shell level. (wi00675102).
- TFTP packets egressing out of line card port are marked with dscp 0x30, instead of default value. This
 issue is resolved (wi00564778).
- Executing the 'show sys pluggable-optical-modules info' command no longer results in repeated GBIC inserted messages being generated. (wi00564844).
- PIM mroute flapping could potentially be encountered in networks configured with short timer values for the multicast forward cache timeout. This was only encountered for multicast streams with low data rates in MLT or SMLT topologies and was dependent on which link in the S/MLT the data stream was active. Mroute flapping will no longer be encountered in this scenario. (wi00564358)

CLI/NNCLI

• Executing the 'show fulltech' command in NNCLI mode in some configurations would previously lead to unexpectedly high CPU utilization. Optimizations in the execution flow have now been made to minimize the impact of running the show 'fulltech'. (wi00564789).

IP

- Deletions of VLAN IP did not previously remove the associated IP records in the HW. This could lead to
 initial connectivity failure if the deleted VLAN IP address were re-used on a different device until an ARP
 request was issued by the new device. This issue is resolved (wi00564233).
- Routed ipv6 packets were previously dropped when ECMP was configured for IPv4. This issue is resolved (wi00564341).
- When changing the IP address of a VLAN, the previous VLAN IP address would still be advertised to
 adjacent devices in the topology tables. This resulted in the "show sys topology" command from the
 adjacent boxes still displaying the previous IP address of the neighbour until a cold boot of the neighbour
 was performed. This issue is resolved (wi00507312)

DHCP

 DHCP Replies are flooded by Relay Agent instead of sending unicast DHCP reply packet. This issue is resolved (wi00564847).

IP Multicast

- A PIM message received on a specific port was discarded if the egress towards the source is on the same port but different VLAN. This issue is resolved. (wi00564777)
- In multicast over SMLT environments, aggregation switches could never age out certain S,G entries even
 after the source stopped sending multicast traffic. These stale entries would eventually prevent new entries
 from being created and could also result in high cpu utilization. This issue is resolved (wi00697430)

MLT / SMLT

- An infrequent scenario has been identified which could result in a CPU reset in the SMLT module during upgrades to 5.1.2.0. This issue is now resolved. (wi00564781).
- The VLAN MAC addresses of an IST peer switch should be learned only via IST links in a normal
 operating environment. It has been noted in some transient network scenarios that flooded control plane
 packets may be reflected and result in these addresses being learnt temporarily on SMLT links. SMLT



behaviour has now been enhanced to ensure that the IST peer switch VLAN MAC addresses are never learnt on SMLT links. (wi00733200).

- In full mesh SMLT with both LACP and VLACP configured, a higher than expected number of VLACP packets may be forwarded to the CPU. This issue is resolved (wi00564193).
- In ERS 8600 with static-mcast mac configured in a SMLT setup, when the links are disabled/enabled, the error message "rarlsPortInMgid(4095): Invalid Mgid" was seen. This issue is resolved (wi00564321).
- When both aggregation switches in an IST pair are rebooted with SMLT ports disabled in the saved configuration file, the SMLT state will remain "normal" on one of the switches when the SMLT ports are subsequently restored. This issue is resolved (wi00564214).
- In an LACP SMLT, the SMLT status would incorrectly remain in SMLT state if the established LACP aggregation times out on the link without a link failure. This issue is resolved (wi00828218)
- In scenarios where packets generated by an IST peer are reflected back on an SMLT link, the
 "self" mac address associated with IST peer will no longer be learnt on an SMLT link and will
 remain properly programmed on the IST MLT. This improves resiliency during transient
 conditions, such as network convergence, that may result in packet(s) being reflected back to
 the IST peer on an SMLT link. (wi00733200)

BGP/VRF

- Disable/enable of route-policy configured within a VRF results in a crash because of NULL pointer dereference. This issue is resolved (wi00564289).
- On disabling/re-enabling BGP or doing BGP restart on the VRF, routes updates were not being processed properly in configurations where VRF 1 was not configured. This issue is resolved (wi00564348).



Software Release 5.1.3.0

Release Date: August 06th, 2010

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

Changes in This Release New Features in This Release

None.

Old Features Removed From This Release

None.

Problems Resolved in This Release

Switch management

- The command "show ports stats show-all" was previously not displaying all of the associated port statistics information. The ERS 8600 now will display the proper information. (Q02012952-01)
- The egress queue service rates configured in NNCLI mode were previously getting lost after a reboot. The egress queue service rates configured are now retained after a reboot. (Q02116358)
- In NNCLI mode "show qos egress-queue-set <queue-set-id>" command was showing no output. ERS 8600 now displays the proper output on executing this command. (Q02116618)
- Previously initiating a traceroute via JDM to an unknown destination while other ping or traceroute activites were being performed simulatenously from the same switch could potentially lead to system instability. This situation has now been addressed. (Q02137566)

Platform

- In specific scenarios with filters and port mirroring being used simulataneously, the ERS8600 will no longer see an increase in CPU utilization due to packets being sent improperly to CPU. (Q02141867)
- In some specific ACL configurations with default-action specified, the ERS8600 previously blocked certain traffic patterns improperly. The situation has now been addressed. (Q02068243)
- Previously links on an R-module could stay up for 60 seconds when the primary SF/CPU (of a dual non-HA SF/CPU configuration only) was not properly removed (module pulled out without prior master reset or switchover). The ERS 8600 now ensures that the links are brought down immediately when the primary SF/CPU is removed, for this configuration. (Q02102654)
- The radius secret key will now be stored as encrypted in the shadov.txt file. Before upgrading to 5.1.3.0, it is now required of the user to delete the radius secret key and then re-add it after the up-grade is complete to avoid accessibility problem with RADIUS. This situation has already been addressed in v7.0 code release. (Q01881817-03)
- When multiple failovers are performed on an ERS 8600 in HA environments, some R module I/O modules could come back up off-line. This situation is now addressed in the 5.1.3.0 code release but also requires the use of the new updated DPC FPGA image (see File Names section). Associated with this 5.1.3.0 Release, the



DPC firmware image must be upgraded for all R-module I/O modules to the dpc194.xsvf firmware image. If the firmware image is not upgraded, the user will receive a warning log message upon any re-boot of 5.1.3.0 code release, warning them that DPC FPGA firmware image is out of revision. (Q02053766-01)

- On E/M module cards, receiving 802.3x pause frames on gigabit Ethernet ports, could previously result in port level resets. This situation is now addressed. (Q02101087)
- For an ERS 8600 running with 8692 SF/CPU with SuperMezz, the SuperMezz physical LED will now display properly. (Q02102364)
- During boot-up, the potential for 8612XLRS 10Gig port flapping will no longer occur. (Q02138423)
- An error in loading configuration file previously resulted in all of the line cards being disabled. This behavior was added in 5.1 code. This behavior is now changed such that the rest of the correct config will be loaded and all the remaining line cards will not be disabled, but only the line card associated with the improper configuration will be disabled. This situation is different than an "invalid config file, with verify-config flag enabled", in which case the system will not load the config and will bring up the system with all I/O modules disabled (versus loading the default config). This situation has already been addressed in v7.0 code release. (Q02056382-01)
- A power usage calculation error has been corrected for 8648TXE and 8691SF cards which previously lead to improper warnings being generated in some configurations indicating that the chassis was running on low power. (Q02072016)
- The value of the ingress records was showing improper values via the command show ip mroute-hw resource usage. This has been now been addressed and the proper values for these records are now displayed. (Q02120442)
- The Software power tables embedded in the ERS 8600 were out of sync with the Power Supply Calculator posted via the web. This inconsistency has now been addressed. This situation has already been addressed in v7.0 code release. (Q02020261-01)

RSTP/MSTP

- It had been seen that there was an outage of 30sec in some RSTP setups when one of the root ports was disabled. This situation has now been addressed and the ERS 8600 re-converges within the proper time interval. (Q01984762-02)
- IN RSTP mode, the log file transfer feature was not working properly. This situation has been addressed and the log file transfer feature is now working as expected when RSTP mode is enabled. (Q02101565-01)

IP Unicast

- In a specific aggregation scenario, when an ERS 8600 forms a neighbour relationship with Cisco, the BGP session will no longer go down due to a malformed AS path. (Q02085844-01)
- During some specific BGP transition scenarios, system instability was previously seen for the ERS 8600.
 This situation is now addressed. (Q02134841)
- BGP instabilities are no longer observed associated with a HA failover. (Q02135118)
- After an HA failover with a BGP route policy enabled, some BGP routes could be rejected and not readvertised by the ERS 8600. This situation has been addressed. (Q02136224)



IP Multicast

ERS 8600 now ensures that when an IP Multicast sender and the receiver are connected to the same ERS 8600, that SPM (Source Path Messages – specific message type within PGM) packets are no longer dropped. This is independent of PGM being enabled or not, as PGM packet flows can function with PIM-SM enabled. (Q02119454)

MLT / SMLT

- ERS8600 will now deterministically (and properly) hash traffic flows for IPVPN traffic on MLT links. (Q02142913)
- MLTs will now come up properly when the LACP Min Link feature is enabled. (Q02034692-02)
- In some rare network events, it is possible to learn the fdb-entry for an IP interface of the peer aggregation in a Switch Cluster on the SMLT associated port instead of the IST_MLT. In this scenario, the fdb-entry will now be properly updated afterward to correctly point to the IST_MLT. (Q02142730)
- CPU high buffer utilization and associated IST instabilities will no longer be observed in specific situations for the ERS 8600. (Q02109963)
- The 8632TXE module will now properly do offline in the scenario where both master and slave CPU's are removed in systems running with smlt-on-single-cp enabled. (Q02123052)

OSPF

After an upgrade it is now ensured that the OSPF Md5 keys are no longer lost. (Q02127996)

VLACP

 If a mismatching VLACP configuration exists on two ends of a connection associated with a SLT, the SLT will no longer show as SMLT up improperly after a reboot. (Q02119095)

VRRP

 Enabling and then disabling the IST protocol will no longer lead to improper values displayed in the VRRP records. (Q02106080-01)

BFD

 On a ERS8600 running both BGP and BFD, when one tries to enable BGP first and then BFD on the BGP neighbour, the BFD related config can now be set properly. (Q02141063)



Software Release 5.1.2.0

Release Date: April 16, 2010

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

Changes in This Release New Features in This Release

None.

Old Features Removed From This Release

None.

Problems Resolved in This Release

Switch management

- The SNMP trap for rclpBgpPeerLastError will now be sent with a proper byte string length such that the last bye will no longer be lost. This could previously cause operational issues with some SNMP management stations. (Q02092718)
- ERS 8600 will no longer observe system instability associated with configuration changes to switch parameters involving SNMP settings. (Q02094258)
- Previously the ERS 8600 was applying a local Access Policy to IPv6 routed SSH packets. Now the system will
 route these packets and apply Access Policies to only local destination policy type (SSH, Telnet, HTTP) IPv6
 packets. This will no longer cause inappropriate connection issues to remote hosts. (Q02070640-01)
- SNMP GET/GET NEXT under certain conditions associated with the MAC (FDB) table was previously not
 working properly. These conditions lead to an issue that NetIQ PVQM would not function properly with an ERS
 8600. This is now resolved. (Q02113802)
- ERS8600 has been modified to now allow proper communication with NetQOS Management Device (generally used for IPFix data collection) via SNMPv3. (Q02049612-01)

Platform

- With both filtering and ingress mirroring enabled on the ERS8600, system instability could be seen under certain traffic conditions. This is now resolved. (Q02078239-01)
- IP fix traffic from the switch to an external collector will no longer be sent with an improper QoS marking of QOS=7, but instead sent with QOS=0, now placing these packets into the proper default egress queue.
 Previously this traffic could potentially interfere with other system management traffic leading to the potential for system instability when IPFix was enabled. (Q02044640-01)
- High CPU utilization on an I/O module co-processor (therefore R/RS only) will no longer result in a loss of messaging synchronization with the 8692 SF/CPU, which previously could have led to system instability. (Q02085085)



- ERS 8600 will no longer show system instability in while writing to the PCMCIA card with CLI Logging enabled. (Q02006689-01)
- ERS 8600 R and RS module card ports will now initialize multicast and broadcast bandwidth limiting values properly when these features are enabled. (Q02074960)
- Previously when an 8630GBR experienced SW messaging instability to the CP (COP to CP messaging) that
 would required a module reset to resolve, the far end port could stay up for 20 seconds, which could lead to a
 20 second SMLT blackhole. This was associated with the MAC chip not turning off its laser when the module
 was reset. This situation is now resolved, and the 20 second SMLT blackhole will no longer be seen.
 (Q02112285)
- ERS 8600 will now properly handle IPX packets with a broadcast destination MAC of type RIP or SAP. Previously this could create a potential issue for routing IPX for E/M modules (R/RS modules do not support IPX Routing). (Q01997486-04)
- Packet throughput performance for jumbo frames at line rate has been improved for the 8612XLRS modules. (Q02075673)
- Filter pattern definitions for HTTP packet streams will no longer impact other protocol traffic. (Q02089688)
- Users will now be able to connect to an ERS 8600 using Secure Copy (SCP) with access-level rwa when access-strict true is also configured. Previously SSH worked, but SCP did not. (Q01767930-01)
- ERS 8600 will no longer encounter link flapping upon reboot of an OM1400 edge device running SFFD when connected to 8630GBR ports. Avaya continues to recommend the use of VLACP over SFFD, except in cases where the Avaya (or ex-Nortel) product does not support VLACP, such as the OM1400. (02014236-01)
- ERS8600 will now properly forward DHCP packets with the DHCP-relay agent configured as the VRRP virtual IP when the DHCP request has the broadcast flag set. Avaya best practice recommendation continues to be to configure the DHCP-relay agent IP address as the VLAN physical address and not use the VRRP IP address. (Q02059607-01)
- Reliability of R and RS series line card recovery after CPU resets (normally seen during switch software upgrades) has been improved due to enhancements in SF/CPU to I/O module co-processor message communication and synchronization. (Q02091485/Q01997485)
- ERS 8600 will no longer silently drop packets when the number of ACEs with debug count enabled is such that system resources are at their maximum, but instead the filters will now all function properly. (Q02045086)
- A memory corruption scenario has been identified which previously led to intermittent system instability and log
 messages relating to data manipulations of the rarHashBin data structure in some environments (log messages
 would contain RAR wording). The underlying cause of the memory corruption leading to the instabilities has
 now been resolved. (Q02093533, Q02106560)

RSTP/MSTP

- Enhanced MSTP/RSTP logging information which was previously added in release 4.1.3.0 was not present in any 5.x code. This functionality has now been properly added. Q02053232)
- The VLAN interface on an ERS8600 in RSTP/MSTP mode will no longer be brought up unless a port first becomes active in the VLAN. This matches the existing VLAN interface behaviour in STP mode. (Q02083039)
- Packet loss on an MLT with RSTP enabled will no longer been seen after a CPU reset/switchover with HA mode enabled or after a complete switch re-boot. (Q02003158-01)
- ERS 8600 will properly retain the MLT path-cost configuration over reboots when configured for RSTP/MSTP mode. (Q02048253)



 ERS8600 will now properly show the MSTP CIST port path cost info when "show port info mstp" is executed. (Q02048252)

IP Unicast

UDP

 The configured filter action is now properly observed for ACL's configured to match UDP source and destination port ranges between 32752 and 32767. (Q02076252-01)

Static Routes

 ERS 8600 will no longer encounter system (DRAM) memory exhaustion with DHCP-relay configured on a Layer 2 VLAN or at the port level for a non-brouter port. (Q02076879)

BGP

 ERS 8600 will now properly learn the default routes from eBGP peers even after the failover or toggling of the physical port connection. (Q02094999)

IP Multicast

- ERS 8600 will no longer observe periods of sustained high CPU utilization associated with the forwarding of multicast traffic. (Q02067852)
- ERS 8600 will now properly recover its DVMRP status for an ATM interface when a Port/Fiber Fault occurs, and is then restored. (Q02041428)

MLT / SMLT

- Connectivity to NLB servers single homed to one ERS8600 in an IST pair will now function properly for SMLT connected devices when using an nlb-mode of unicast or with arp multicast-mac-flooding enabled.
 Configurations using nlb-mode of multicast were not affected. (Q02037778-01)
- When the lowest member port of an SMLT is in an operationally down state during SMLT recovery, ARP
 records would previously be programmed incorrectly during the database synchronization and cause
 connectivity failures until the SMLT port was recovered. ARP records are now properly programmed for this
 scenario. (Q02124545)
- SLPP will now disable the correct SMLT port when a loop is detected on an SMLT link where the smlt-id configured is not the same as the mlt-id value configured. (Q02089994)
- On ERS8600, FDB and ARP entries will point correctly to SMLT after IST peer reboots. Previously entries learnt on SMLT ports could very occasionally point incorrectly to the IST. (Q02091486)

RSMLT

- With ICMP redirect enabled on RSMLT peer switches, packets destined to the RSMLT-peer's MAC address will now be forwarded correctly and not dropped as ICMP-redirect packets. (Q02091034)
- In RSMLT environments, ERS8600 will no longer add the RSMLT-peer's MAC address to its Router MAC table. This will result in packets destined to the IP interface of RSMLT-peer to forward properly. (Q02091350)



SLPP

- Previously SLPP would fail to detect a loop if the port uptime was between 24.8 and 49.7 days. After 49.7 days, and then again at 24.8 days, the same situation would repeat the faulty state would cycle between working to non-working, back to working, etc. based upon the days time period. This is now resolved. A workaround to this situation previously is either a switch reset/re-boot, or port disable/enable prior to 24.8 days of operation. (Q02113609)
- For non-routed VLANs, SLPP will now use a source MAC address equal to the Base Mac Address of the ERS8600 plus the ID of the VLAN. This will ensure that received SLPP packets are processed against the correct non-routed VLAN when a loop is present in the network and avoid erroneous warning messages. (Q02081719)

VLACP

- ERS 8600 will now always bring down a port via VLACP within the configured timeout value when its VLACP peer goes down. Previously one end of the link would take an extra timeout cycle before downing the port in some scenarios. (Q02088710)
- In scenarios where a port was taken down by VLACP and then the far end switch is rebooted or VLACP recovered to recover the port, Persistent VLACP port flapping will no longer occur. (Q02088709)
- On E-mode enabled switches in full mesh SMLT topologies, protocol traffic will now flow properly on the second MLT link when the first MLT link is disabled. (Q02089615)

VRRP

 Disabling and re-enabling the IST session on an IST switch pair with VRRP configured between them will no longer result in both switches reporting VRRP master ownership. (Q02104773)



Software Release 5.1.1.1 Summary

Release Date: October 2009

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

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)



Software Release 5.1.1.0

Release Date: 7 August 2009

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

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 form 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-Isa-ignore enable

Alternatively use the following NNCLI command:

bad-Isa-ignore enable

Other associated NNCLI commands would be:

no bad-Isa-ignore [enable] default bad-Isa-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 reconvergence 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)

Platform

• The change for CR 1767930 which is related to proper operation of SCP (Secure Copy) while using Access Policies, which was fix 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)

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