Ethernet Routing Switch 8300

Software Release 3.0.x.x

Ethernet Routing Switch 8300

Software Release 3.0.4.0

1. Release Summary

Release Date: Jan 7 2008
Purpose: Software maintenance release to address customer found software issues.

2. Important Notes before Upgrading to This Release

None.

3. Platforms Supported

Ethernet Routing Switch 8300 modules in 8010 and 8006 chassis.
Ethernet Routing Switch 8300 modules in 8306 and 8310 chassis.

4. Notes for Upgrade

Please see the *Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0* and *Nortel Ethernet Routing Switch 8300 Upgrades - Software Release 3.0* (Part No : NN46200-401and Part No : NN46200-400) available at http://www.nortel.com/support , (select Ethernet Routing Switch family) for details on how to upgrade your Ethernet Routing Switch 8300.

File Names for This Release

File Name	Module or File Type	File Size (bytes)
p83b3040.img	Boot monitor image	1075275
p83a3040.img	Runtime image	6705186
p83f3040.img	Pre-Boot monitor image **See IMPORTANT Note below	230786
p83r3040.dld	Ethernet module image (Required for I/O) cards	2222996

** Nortel recommends that the Pre-Boot Image ONLY be upgraded if the system is currently running a Pre-Boot Monitor Software Rel 3.6. Systems running a Pre-Boot image Rel 3.7 should not be upgraded as there have been no changes to the Pre Boot Image for this release. Please use the CLI command **'show sys sw'** to know the Pre-Boot Monitor Software version.

p83c3040.aes	Encryption module for SNMPv3 (DES)	26960
p83c3040.img	Encryption module for SSH (3DES)	52424
p83a3040.mib	MIB file (Private)	3045022
p83a3040.mib.zip	MIB (zip file)	486593
p83a3040.md5	md5 checksum file	524

5. Version of Previous Release

Software Version **3.0.3.0**

6. Compatibility

This software release is managed with Java Device Manager (JDM) release 6.0.6.0**.**

7. Changes in This Release

New Features in This Release

This section describes the new software features for the Ethernet Routing Switch 8300 Software Release 3.0.4.0.

Topic
Output Redirection Enhancement for CLI command "show"
Regular Expression Enhancement for CLI command "grep"

Output Redirection Enhancement for CLI command "show"

This enhancement provides a mechanism to save the output of the CLI command "show" to a file on FLASH or PCMCIA.
Syntax

< show command> **>** <file>
 where

<show command> is an instance of CLI command "show", for example "show ip arp info", or "show vlan info fdb-entry <vid>" etc.
<file> is the file name in the format /pcmcia/<file> | /flash/<file>. The file name, including the directory structure, can be up to 99 characters.

Regular Expression Enhancement for CLI command "grep"
Based on the existing CLI command "grep", this enhancement provides a mechanism to grep the specified text file by using regular expression. The syntax of the CLI command "grep" is the same as usual:

Syntax
grep <string> <file>

where

> <string> is the character string to be matched, from 1 to 600 characters.
> <file> is a file name, in the form /pcmcia/<file> or /flash/<file> from 1 to 99 characters.

The general usage of this enhancement includes using wildcard to search for expected MAC addresses:

> First, redirect the output of the "show vlan info fdb-entry <VID>" to a file by running "show vlan info fdb-entry <VID> > /flash/fdbentry.log".
>
> Then, using wildcards to search expected MAC by using "grep <regular expression> /flash/fdbentry.log". The grep will consider each line of the file as one independent string, and it will perform the regular expression searching according to the input criteria pattern.
>
> **Note:** This feature doesn't support the matching a string across lines. For example: at the end of the first line, there is a string such as "exam". At the beginning of the second line, there is a string such as "ple". The search criteria "example" will not match across these two lines.

As far as the regular expression is concerned, the following operators are supported:

Operator	Functional Description	Examples
.	**Dot**: Matches any single character.	A.A matches AxA and A2A etc G..D matches strings such as GooD, GabD and G12D etc
****	**Backslash**: Matches (escapes) special characters like ".*[]^?$" etc. For example, if the user want to look for "[" in the string, the "\[" should be specified as input.	192\.16\. matches 192.16.10.10 but not 192.168.10.10 \. allows a period to be matched as a period
[ ]	**Square brackets**: Matches the characters or a range of characters separated by a hyphen, within left and right square brackets.	[01357a-z] matches 1, 7, and w, but not 2, 6, or W.
^	**Caret**: Matches the character or null string at the beginning of an input string.	^BCD matches BCDE, but not ABCDE
?	**Question Mark**: Matches zero or one occurrence of the pattern. It has to be used with parentheses to be differentiated from the common help sign.	(Go?d) matches god and good
$	**Dollar sign**: Matches the character or null string at the end of an input string.	BCD$ matches ABCD, but not ABCDE
*	**Asterisk**: Matches zero or more sequences of the character preceding the asterisk.	A* matches any occurrence of the number A including none
+	**Plus**: Matches one or more sequences of the character preceding the plus sign.	A+ requires there to be at least one character A in the string to be matched
( )[ ]	Nest characters for matching. Separate endpoints of a range with a dash (-).	(ab)* matches any number of the two-character string ab ([A-Za-z][0-9])+ matches one or more

| | **Vertical line**: Concatenates constructs. Matches one of the characters or character patterns on either side of the vertical bar. | instances of letter-digit pairs: b8 and W4, as examples. A(B|C)D matches ABD and ACD, but not AD, ABCD, ABBD, or ACCD |

Note:
1. The backslash("\") only applies to the Regular Expressions Operators listed in the above table (such as ".", "\", "[]" etc). However, if the backslash is applied to the normal letters (a-z A-Z) or numbers (0-9) ---- like "\a" or "\0", we will consider it as normal letter or number.
2. In the common command line interface (i.e. CLI/NNCLI, Solaris's sh/csh/ksh etc), the question mark "?" is always considered as a sign of asking for the help information of the current command. So, in this feature, we will use parentheses mark to specify that this question mask is for Regular Expression. For example, (Go?d) matches god and good.
3. Up to 9 pairs of parentheses in one regular expression are supported.

The user can combine the period operator (.) and the asterisk operator (*) to implement the wildcard function. The following example matches the characters A and any characters that follow A, for example "A", "Aabc", "A1234" etc

   A.*

The user can reverse the matching of the range by including a caret (^) sign at the start of the range. The following example matches any letter except the ones listed:
   [^a-gptw]
The following example matches anything except a right square bracket (]) or the letter D:
   [^\]D]

Here are several common examples for your reference:

Expected Result	Regular Expression Pattern
String that contains "00:11:AA"	**00:11:AA**
String that contains "00", "AA", and between of them there can be any number of characters.	**00.*AA**
String that begins with "A" or "a", and ends with digit 0~9.	**^[Aa].*[0-9]$**
String that begins with "filter", and ends with "0xffff"	**^(filter).*(0xffff)$**
String that contains the ".[ ]( )", such as "[192.168.10.1)"	**\[192\.168\.10\.1\)**

Old Features Removed From This Release
None

Problems Resolved in This Release

Switch Management
General
The port scanning over the management port now doesn't cause the system instability. (Q01789274)

The value of the "Usage" column, which is under the Menu "Edit" -> "Security" -> "Access Policies" in JDM, now increases when the device is accessed via SNMP (i.e. DM etc). (Q01744400)

NNCLI

In CLI/NNCLI mode, the description for the "default-metric" now is defined as the following: (Q01153279):

Set the value of the default metric to apply to routes imported into the RIP domain. This is the metric used for routes not learned through RIP if a route policy does not specify a metric for a particular protocol (OSPF etc). The value 0 is used to deconfigure this parameter and restore the default value (the default value is 8).

Layer 2 switching
MLT/SMLT

The MAC updating because of remote SMLT port down now doesn't cause CPU utilization too high for a long time. (Q01740028)

IP Unicast
L2 protocol

On the ERS8300, when VRRP is in backup status, the exceptional VRRP transition now doesn't happen any more. (Q01719051)

8. Outstanding Issues

None.

9. Known Limitations

None.

Please also see "**Known limitations and considerations in this release**" of "Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0" (Part No: NN46200-401) and the Known Limitations section of Readme for Ethernet Routing Switch 8300 Software Release 3.0.3.0.

10. Documentation Corrections

None

1. Release Summary

Release Date: July 27 2007
Purpose: Software maintenance release to address customer found software issues.

2. Important Notes before Upgrading to This Release

None.

3. Platforms Supported

Ethernet Routing Switch 8300 modules in 8010 and 8006 chassis.
Ethernet Routing Switch 8300 modules in 8306 and 8310 chassis.

4. Notes for Upgrade

Please see the *Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0* and *Nortel Ethernet Routing Switch 8300 Upgrades - Software Release 3.0* (Part No : NN46200-401and Part No : NN46200-400) available at http://www.nortel.com/support , (select Ethernet Routing Switch family) for details on how to upgrade your Ethernet Routing Switch 8300.

File Names for This Release

File Name	Module or File Type	File Size (bytes)
p83b3030.img	Boot monitor image	1075298
p83a3030.img	Runtime image	6698938
p83f3030.img	Pre-Boot monitor image **See IMPORTANT Note below	230786

** Nortel recommends that the Pre-Boot Image ONLY be upgraded if the system is currently running a Pre-Boot Monitor Software Rel 3.6. Systems running a Pre-Boot image Rel 3.7 should not be upgraded as there have been no changes to the Pre Boot Image for this release. Please use the CLI command **'show sys sw'** to know the Pre-Boot Monitor Software version.

p83r3030.dld	Ethernet module image (Required for I/O) cards	2222584
p83c3030.aes	Encryption module for SNMPv3 (DES)	26960
p83c3030.img	Encryption module for SSH (3DES)	52424
p83a3030.mib	MIB file (Private)	3045022
p83a3030.mib.zip	MIB (zip file)	486593
p83a3030.md5	md5 checksum file	524

5. Version of Previous Release

Software Version **3.0.2.0**

6. Compatibility

This software release is managed with Java Device Manager (JDM) release 6.0.6.0**.**

7. Changes in This Release

New Features in This Release
None

Old Features Removed From This Release
None

Problems Resolved in This Release

Switch Management
>**General**
>>The system now can config a static route, which is a supernet of one or more VLAN IP range . (Q01647277)
>>Now there is no error messages displayed when the command to show the dhcp-relay counters is executed under cli. (Q01646621, Q01589490-01)
>>The configuration of POE detection is now preserved after reboot. (Q01668422)
>**NNCLI**
>>In NNCLI mode, the "system location" that contains blank is now preserved after reboot. (Q01656658)

Software Platform
>**General**
>>The system now doesn't report the error message "doesn't support card" on console for a target slot that is empty. (Q01499312)
>>The copyright year is now correctly shown in boot banner. (Q01598204-01)

No matter whether the NTP is enabled or not, the time of the standby CP card is now synchronized immediately after the standby CP card comes into service. (Q01647483, Q01597644)

Before downloading the DLD image to I/O cards, the system now validates the image type and the size of the target image file. (Q01444461-01)

The system is now able to automatically select the required image file when the 3DES / DES/ AES modules are loaded via CLI/NNCLI command "load-encryption-module". (Q01623753)

The link negotiation between 8348GTX / 8348GTX-POE / 8324GTX card and Broadcom NIC can now be finished successfully. (Q01588716)

8. Outstanding Issues

None.

9. Known Limitations

This section describes issues known to exist in the 8300 Series Software Release 3.0.3.0 in the following categories:

Topic
Upgrade limitation of v2.2.0.0
SNMP table: rcBridgeFdbTable

Upgrade limitation of v2.2.0.0

It is found that the upgrade will fail with dual CPUs on any images lower than 2.2.0.0 upgrading to any images higher than 2.3.0.0. The reason for this limitation is that the low layer communication mechanism is totally upgraded in v2.3.0.0. After this basic communication mechanism upgrade, the customer may see lock-up situation on dual CPU upgrade.

Here is the workaround for this limitation:

If the customer intends to upgrade from any images lower than V2.2.0.0 to the images higher than V2.3.0.0, please instruct the customer to follow the upgrade document "Nortel Ethernet Routing Switch 8300 Upgrades - Software Release 3.0". There are **18** steps to perform the software image upgrade on an 8300 Series switch with a redundant CPU.

After step **#13** -- "Confirm the boot configuration file changes", **do not** follow the step **#14** but type the following via the console connection to the **standby** CPU:

boot /flash/p83b3000.img -y

Once the boot monitor is upgraded, stop the standby CPU in boot monitor mode.

Type the following on the command prompt via the console connection on the **master** CPU:

boot /flash/p83b3000.img -y

Once the boot monitor is upgraded, stop the CPU in boot monitor mode.

Power-cycle the chassis to bring up the switch and verify that it comes up with the new image. Use the command "show bootconfig info" to verify the boot monitor version. Use the command "show sys sw" to verify the runtime software version for the CPU card image and the I/O card images.

SNMP table: rcBridgeFdbTable

The SNMP table "rcBridgeFdbTable" is incompatible with the standard RFC 1157.
The RFC 1157 requires that:

> 3.2.6.3. Identification of Object Instances
> [...]
> Each instance of any object type defined in the MIB is identified in SNMP operations by a unique name called its "variable name." In general, the name of an SNMP variable is an OBJECT IDENTIFIER of the form x.y, where x is the name of a non-aggregate object type defined in the MIB and y is an OBJECT IDENTIFIER fragment that, in a way specific to the named object type, identifies the desired instance. This naming strategy admits the fullest exploitation of the semantics of the GetNextRequest-PDU (see Section 4), because it assigns names for related variables so as to be contiguous in the lexicographical ordering of all variable names known in the MIB.
> [...]
> 4.1.3. The GetNextRequest-PDU
> [...]
> Upon receipt of the GetNextRequest-PDU, the receiving protocol entity responds according to any applicable rule in the list below:
>
> > (1) If, for any object name in the variable-bindings field,
> >   that name does not lexicographically precede the name of
> >   some object available for get operations in the relevant
> >   MIB view, then the receiving entity sends to the
> >   originator of the received message the GetResponse-PDU of
> >   identical form, except that the value of the error-status
> >   field is noSuchName, and the value of the error-index
> >   field is the index of said object name component in the
> >   received message.
>
> [...]
> GetResponse-PDU represents the name and value of that object whose name is, in the lexicographical ordering of the names of all objects available for get operations in the relevant MIB view, together with the value of the name field of the given component, the immediate successor to that value.
> The value of the error-status field of the GetResponse-PDU is noError and the value of the errorindex field is zero. The value of the request-id field of the GetResponse-PDU is that of the received message.

Currently, the index of SNMP table "rcBridgeFdbTable" includes "rcBridgeFdbStatus", "rcBridgeFdbAddress" and "rcBridgeFdbVlanId". However, the GetNext operation on this table will return name and value of that object, whose name is the immediate successor to the input value, in the lexicographical ordering of "rcBridgeFdbVlanId" and "rcBridgeFdbAddress" but without "". So, this may cause some SNMP application (such as Net-SNMP's snmpwalk operation without – Cc option) to loop indefinitely.
Our solution to fix this problem is identical to the one in ERS8600: create a new SNMP table named as "rcBridgeNewFdbTable" whose index only includes "rcBridgeNewFdbVlanId" and "rcBridgeNewFdbAddress". If this solution is implemented, the JDM needs to be updated for this MIB changes. However, there is no such a single JDM branch for ERS8300v3.0.X.0 series software. We will fix this problem in the ERS8300v4.0.0.0.

Please also see "**Known limitations and considerations in this release**" of "Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0" (Part No: NN46200-401) and the Known Limitations section of Readme for Ethernet Routing Switch 8300 Software Release 3.0.2.0.

11. Documentation Corrections

None

Ethernet Routing Switch 8300

Software Release 3.0.2.0

1. Release Summary

Release Date: Mar 30 2007
Purpose: Software maintenance release to address customer found software issues.

2. Important Notes before Upgrading to This Release

None.

3. Platforms Supported

Ethernet Routing Switch 8300 modules in 8010 and 8006 chassis.
Ethernet Routing Switch 8300 modules in 8306 and 8310 chassis.

4. Notes for Upgrade

Please see the *Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0* and *Nortel Ethernet Routing Switch 8300 Upgrades - Software Release 3.0* (Part No : NN46200-401and Part No : NN46200-400) available at http://www.nortel.com/support , (select Ethernet Routing Switch family) for details on how to upgrade your Ethernet Routing Switch 8300.

File Names for This Release

File Name	Module or File Type	File Size (bytes)
p83b3020.img	Boot monitor image	1075149
p83a3020.img	Runtime image	6698433
p83f3020.img	Pre-Boot monitor image **See IMPORTANT Note below	230786
p83r3020.dld	Ethernet module image (Required for I/O) cards	2222332

** Nortel recommends that the Pre-Boot Image ONLY be upgraded if the system is currently running a Pre-Boot Monitor Software Rel 3.6. Systems running a Pre-Boot image Rel 3.7 should not be upgraded as there have been no changes to the Pre Boot Image for this release. Please use the CLI command **'show sys sw'** to know the Pre-Boot Monitor Software version.

p83c3020.aes	Encryption module for SNMPv3 (DES)	26960
p83c3020.img	Encryption module for SSH (3DES)	52424
p83a3020.mib	MIB file (Private)	3045022
p83a3020.mib.zip	MIB (zip file)	486593
p83a3020.md5	md5 checksum file	524

5. Version of Previous Release

Software Version **3.0.1.0**

6. Compatibility

This software release is managed with Java Device Manager (JDM) release 6.0.2.0**.**

7. Changes in This Release

New Features in This Release
None

Old Features Removed From This Release
None

Problems Resolved in This Release

Switch Management
General
The description of GBIC ports on CP cards is now correctly displayed. (Q01504488)
The "Cold-start / Warm-start" trap message now can be received while trap-receiver is in inband connection (i.e. the net management is configured on the IO cards). (Q01534395)

Secure Shell
The ERS8300 is now able to clean up the broken SSHv1 sessions caused by port disabling. (Q01512693).

Platform
General
The POE I/O cards are now able to handle the larger than normal ElectroStatic Discharge(ESD) or Cable Discharge (CD) events. (Q01559866)
Note: A larger than normal ESD or CD directly into the port may cause POE management chipset to reset. Though the ERS8300 can handle it, it is recommended that the customer or operator takes all precautions to eliminate or reduce ESD event to avoid unnecessary confusion.

Layer 2 switching
MLT/SMLT

The multicast traffic received from IST is now prevented to be forwarded to SMLT ports. (Q01498518)

MLT designated port now is null if there are no ports in UP status in this MLT group. (Q01491190)

The "smlt-remote" flags of learned MAC entry on the aggregation switches now are correctly set when the SMLT ports that connect to the closet switch are disabled and enabled. (Q01481762)

The "smlt-remote" flags of learned MAC entry on the aggregation switches now are correctly set when the same packet is exceptionally sent to both aggregation switches. (Q01489313)

The FDB entries learnt via IST-MLT now can be purged out correctly. (Q01504767)

IP Unicast
General

The ERS8300 now can correctly process the DHCP offer message received from IST. (Q01579460)

When performing DHCP relay function, the aggregation switch is now able to correctly handle the wrong DHCP offer message, inside which the offered address is the same as the VRRP IP address itself, from misconfigured DHCP server. (Q01504398)

8. Outstanding Issues

None.

9. Known Limitations

This section describes issues known to exist in the 8300 Series Software Release 3.0.2.0 in the following categories:

Topic
Configuring ACL/ACE filters

Configuring ACL/ACE filters
Use the following guidelines when you configure ACL/ACE filters over ports.

Always use an ACT with only the proper attributes selected. If you must add ACEs with attributes that are not in the original ACT, you must create a new ACL associated with the new ACT.

For multiple ACEs that perform the same task, for example: deny or allow IP addresses, or UDP/TCP-based ports, you can configure one ACE to perform the task with either multiple address entries, or address ranges, or a combination of both. You can now use this one ACE instead of using multiple ACEs.

For ERS8300, the user can apply only one ACG per port, but the user can apply the same ACG on multiple ports. At the same time, the maximum number of ACEs that are contained by all the applied ACGs is 128 (If the ACG is applied to multiple ports, it is considered as one ACG). If the following messages appear on the console or in the log, it is likely that there is an excessive number of active ACEs configured within an ERS8300. Therefore, review and reduce the number of active ACEs, keeping the guidelines, noted above, in mind.

CPU5 [12/14/06 12:20:34] QOS ERROR gtcmCreateTcEntry: Failed, status = 20!

For ERS8300, a maximum of 128 ACEs per ACG are supported. This maximum may not be achievable depending on the type of attributes used within an ACE. For example, an ACE containing the logical operator "NON EQUAL" will definitely reduce the maximum number of ACEs per ACL. In these cases, to help ensure stable system operation, reduce the number of ACEs or optimize the ACE, and follow the previous guidelines.

Please also see "**Known limitations and considerations in this release**" of "Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0" (Part No: NN46200-401) and the Known Limitations section of Readme for Ethernet Routing Switch 8300 Software Release 3.0.1.0.

12. Documentation Corrections

None

	Ethernet Routing Switch 8300
NORTEL	**Software Release 3.0.1.0**

1. Release Summary

Release Date: 20 Dec 2006
Purpose: Software maintenance release to address customer found software issues.

2. Important Notes before Upgrading to This Release

None.

3. Platforms Supported

Ethernet Routing Switch 8300 modules in 8010 and 8006 chassis.
Ethernet Routing Switch 8300 modules in 8306 and 8310 chassis.

4. Notes for Upgrade

Please see the *Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0* and *Nortel Ethernet Routing Switch 8300 Upgrades - Software Release 3.0* (Part No : NN46200-401and Part No : NN46200-400) available at http://www.nortel.com/support , (select Ethernet Routing Switch family) for details on how to upgrade your Ethernet Routing Switch 8300.

File Names for This Release

File Name	Module or File Type	File Size (bytes)
p83b3010.img	Boot monitor image	1075234
p83a3010.img	Runtime image	6699018
p83f3010.img	Pre-Boot monitor image **See IMPORTANT Note below	230786

** Nortel recommends that the Pre-Boot Image ONLY be upgraded if the system is currently running a Pre-Boot Monitor Software Rel 3.6. Systems running a Pre-Boot image Rel 3.7 should not be upgraded as there have been no changes to the Pre Boot Image for this release. Please use the CLI command **'show sys sw'** to know the Pre-Boot Monitor Software version.

p83r3010.dld	Ethernet module image (Required for I/O) cards	2221508
p83c3010.aes	Encryption module for SNMPv3 (DES)	26960
p83c3010.img	Encryption module for SSH (3DES)	52424
p83a3010.mib	MIB file (Private)	3044990
p83a3010.mib.zip	MIB (zip file)	486584
p83a3010.md5	md5 checksum file	524

5. Version of Previous Release

Software Version **3.0.0.0**

6. Compatibility

This software release is managed with Java Device Manager (JDM) release 6.0.2.0**.**

7. Changes in This Release

New Features in This Release
None

Old Features Removed From This Release
None

Problems Resolved in This Release
IP
General
The traceroute utility (i.e. Window command "tracert") will no longer time-out on the first hop when the first hop is the ERS8300 itself. (Q01393096)
ERS 8300 does now respond to ARP query from Alteon firewall. (Q01502526)

Layer 2 switching
MLT/SMLT
There is now about 4 seconds traffic loss during the system booting time or system recovery time of the SMLT active switch. (Q01360780, Q01404355)
In a diamond SMLT topology consisting of 4 ERS8300 devices, the booting with factory default configuration of the edge switch now doesn't cause the system instability of the aggregation switch. (Q01475259)
Note: Here is a example for the diamond SMLT topology
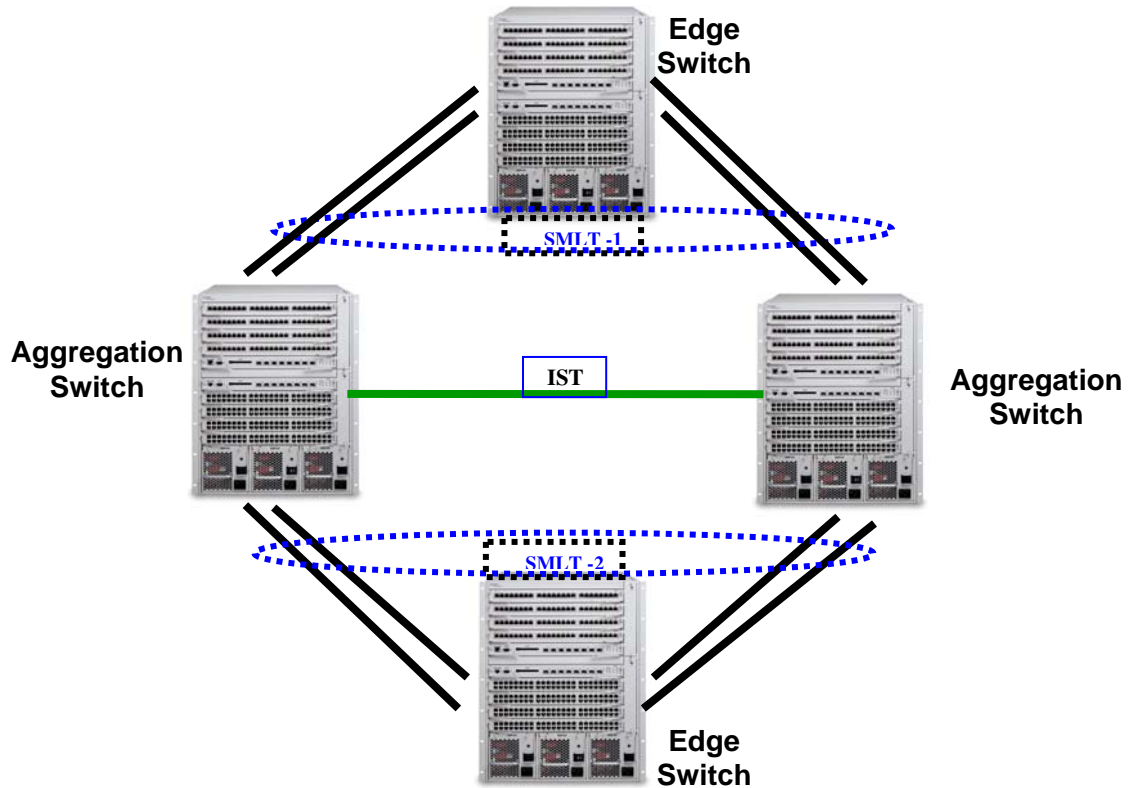
The "smlt-remote" flag of SMLT MAC entry is now correctly set if this MAC is learnt via pinging from edge switch in SMLT topology. (Q01490170)

The FDB entries are now in sync between aggregation switches when SMLT ports are disabled. (Q01483556)

Platform
General

The following message is now displayed on the console when the RSA key is generated successfully using the CLI command "config sys set ssh action rsa-keygen" (Q01398088)

> Generating RSA keys. This may take a while. Please wait...
> SSH INFO RSA private/public Host key pair successfully generated

The Gigabits ports on CP card (i.e. 8393) and 8348GB card will no longer go active until the system is ready to accept traffic from network. (Q01399804, Q01474912)

The ping-snoop message, i.e. "CPU INFO ICMP Request received on…", will no longer display unreadable characters. (Q01455449)

When the TFTP IP address is configured for the management network, a class based route now no longer gets added in the management network. (Q01461908)

There is now no SEEPROM error (error message: "seepromGetInfo: Failed 2") while booting the ERS8300. (Q01485593)

EAP

The data flow with same MAC address on two different "MAC centralization" enabled ports now doesn't prevent this MAC address being populated into FDBentry. (Q01465709)

The VLAN now can't be deleted if one of its ports has an active EAPOL session. (Q01460640)

Switch Management

General

The syslog maximum number of hosts (syslog max-host) is now preserved after reboot. (Q01395367)
The VLAN name is now shown correctly even when its length is more than 14 characters. (Q01416621-01)
The MIB walk on lldpLocManAddrTable now doesn't cause system instability on ERS8300. (Q01487381)
Added support bits in license for some CLI commands in basic package. (Q01471509)

8. Outstanding Issues

None

9. Known Limitations

This section describes issues known to exist in the 8300 Series Software Release 3.0.1 in the following categories:

Topic
Software

CR Reference	Description
Software	
Q01498518	When the MLT ID of IST is greater than 7, the multicast traffic received from IST will be forwarded to SMLT ports at 8348TX / 8348TX-POE / 8324FX cards. There is a hardware limitation on these 3 kinds of cards: the hardware can only support as much as 7 MLTs synchronously. So, the MLT ID of the IST can't be greater than 7, if there are any existing SMLT containing ports of 8348TX / 8348TX-POE / 8324FX cards. Similarly, if the MLT ID of existing IST is greater than 7, it is forbidden to create a SMLT containing ports of 8348TX / 8348TX-POE / 8324FX cards, or add this kinds of ports into existing SMLT.
Q01504767	In a diamond SMLT topology consisting of 4 ERS8300 devices, after one aggregation switch reboots and comes up, the FDB entries learnt by this aggregation switch via IST-MLT may not be purged out as expected.
Q01481762, Q01485041	The "smlt-remote" flags of learnt SMLT MAC entry is TRUE on both aggregation switches when the SMLT links connected to edge switch are disabled and enabled.
Q01489313	The "smlt-remote" flag of one learnt SMLT MAC entry of 5520 SONMP packets are TRUE on two aggregate switches.

Please also see "**Known limitations and considerations in this release**" of "Nortel Ethernet Routing Switch 8300 Release Notes - Software Release 3.0" (Part No: NN46200-401).

13. Documentation Corrections

None

14. SNMP Access policies – Clarification

There is a new feature in release 2.3.1.0, and its name is "Support for SNMP service in access policy". The SNMP access policy will always be disabled by default during the upgrading from older releases (older than release 2.3.1.0). The following is the complementary clarification about this feature.

How to configure access policy for snmp in release 2.3.1 or newer release?

1) Enable the access-policy globally:
   config sys access-policy enable true
2) Create the policy:
   config sys access-policy policy 2 create

   The following parameters will be having default values when an access policy is created. User can change them if required. Below is the explanation of the parameters with examples:

   name -- Used to set the name of the access-policy
   config sys access-policy policy 2 name policyName
   policy enable – Used to enable or disable the policy
   config sys access-policy policy 2 enable
   mode – Used to determine whether access be allowed or denied to an incoming request if it matches the policy
   config sys access-policy policy 2 mode allow
   precedence – If more than one policies are matched for an incoming request, the value of precedence determines which one of them would be applied. Lower the precedence value, higher the priority.
   config sys access-policy policy 2 precedence 10
   network – If configured for a policy ,then the policy gets applied only in case the subnet of the source ip address of the incoming access request matches the configured network address.
   config sys access-policy policy 2 network 198.202.188.0/24
   host - If configured for a policy ,then the policy gets applied only in case the source ip address of the incoming access request matches the configured host ip address.
   config sys access-policy policy 2 host 198.202.188.174
   username – Used only in case of rlogin access.
   config sys access-policy policy 2 username nortel
   accesslevel – Determines the accesslevel which the user should have if he is to be granted access. If the user's accesslevel is greater than the one configured for the policy, he would be granted access or not depending upon whether access-strict is set to true or false.
   config sys access-policy policy 2 accesslevel rw
3) Enable snmpv3 service in policy 2:
   config sys access-policy policy 2 service snmpv3 enable
4) Add the snmp-groups and the security model to the access policy. The default snmp-groups and the security models for allowing access to private and public community strings are:
   readgrp snmpv1
   readgrp snmpv2c
   v1v2group snmpv1
   v1v2group snmpv2c

   config sys access-policy policy 2 snmp-group-add readgrp snmpv1
   config sys access-policy policy 2 snmp-group-add readgrp snmpv2c

> > *config sys access-policy policy 2 snmp-group-add v1v2grp snmpv1*
> > *config sys access-policy policy 2 snmp-group-add v1v2grp snmpv2c*

5) Login to the switch with public & private.
6) If a new community name is to be granted access through a policy, then the snmp-group corresponding to the community string and the security model should be added to the access policy.
> > *config snmp-v3 community create third nortel readview*
> > *config sys access-policy policy 2 snmp-group-add readgrp snmpv1*
> > *config sys access-policy policy 2 snmp-group-add readgrp snmpv2c*

Upgrading from previous load to release 2.3.1

Access Policies need to be disabled at the global level before upgrading from previous loads to release 2.3.1.0 or newer release if access via JDM required immediately after upgrade:
> CLI Command
> > *config sys access-policy enable false*
> NNCLI
> > *access-policy disable*

After upgrade, an access policy for the SNMP group needs to be created, and add the snmp-groups and the security model to this access policy (Access Policies SNMP Groups table) before enabling Access Policies at the global level.