



# Ethernet Routing Switch 5510/5520/5530 Software Release 5.0.9

## **1. Release Summary**

Release Date: 24-June-2008

Purpose: Software patch release to address customer found software issues.

## **2. Important Notes Before Upgrading to This Release**

For customers upgrading from older software versions, a series of upgrades are required to prevent configuration corruption under certain circumstances. This upgrade path includes the following releases: 4.0, 4.1, 4.2, and 5.0.

## **3. Platforms Supported**

Ethernet Routing Switch 5510/5520/5530

## **4. Notes for Upgrade**

Please see "System Configuration Guide for Nortel Ethernet Routing Switch 55xx Series, Software Release 5.0" (Part No. 217468-B, available at <http://www.nortel.com/support>). Under Technical Support, select Routers & Routing Switches followed by Ethernet Routing Switch 5510, 5520, or 5530-24TFD) for details on how to upgrade your Ethernet Routing Switch.

## **File Names for This Release**

<b>File Name</b>	<b>Module or File Type</b>	<b>File Size (bytes)</b>
5530_500003_diag.bin	Diagnostic image	811,864
5530_509026.img	Agent code image	5,415,904
5530_509027s.img	Agent code image (SSH)	5,642,976

## **5. Version of Previous Release**

Software Version 5.0.8

## **6. Compatibility**

This software release is managed with Java Device Manager (JDM) release 6.0.2.

## **7. Changes in This Release**

### **New Features in This Release**

#### ***EAP and NEAP Separation***

The purpose of this new feature is to allow distinct configuration options and functionality for EAP/NEAP clients. In previous versions, there is no option to disable EAP authentication without disabling NEAP clients.

In the 5.0.9 release, the user can choose to disable EAP and have only NEAP clients connected. In this case, EAP packets are no longer processed and the device will only forward traffic for authenticated NEAP clients.

#### **CLI Commands:**

(config-if)# eap multihost eap-protocol-enable	allow and process EAP packets (as before)
(config-if)# no eap multihost eap-protocol-enable	drop all EAP packets
(config-if)# default eap multihost eap-protocol-enable	allow and process EAP packets (as before)
(config-if)# show eapol multihost interface <port#>	display the new parameter
(config)# eap multihost eap-protocol-enable	allow and process EAP packets (as before)
(config)# no eap multihost eap-protocol-enable	drop all EAP packets

Per port and global SNMP support is available. See the bsee.mib file for details on the following SNMP objects:

bseeMultiHostEapProtocolEnabled  
bseePortConfigEapProtocolEnabled

This feature also has ACG support for global and per port settings.

When upgrading from 5.0.8 to 5.0.9 the default value for eap-protocol-enable is "enabled" (to keep existing functionality).

### **Old Features Removed From This Release**

None.

### **Problems Resolved in This Release**

AUR was not functional with global autosave disabled (**Q01832122**).

NEAP device not able to communicate through ERS5500 while device is authenticate (**Q01833016-01**).

After reset, any port belonging to an inactive spanning tree group would not pass traffic (**Q01837439**).

OSPF adjacencies fail when 'Unknown Multicast Filter' was enabled (**Q01828889-01**).

NEAP clients could not communicate when Radius assigned VLAN option was configured (**Q01877389**).

Under certain circumstances a PC with NEAP Radius Authentication could lose network connectivity although an apparently authenticated port (**Q01784034-01**).

ARP entries were not learned when receiving DHCP Discover packets from a device that had multiple VLANs using the same MAC address (**Q01768780**).

Under certain conditions, an edge 55XX connected via SMLT to a core 55XX device would broadcast all traffic that was to be routed through the gateway (**Q01809711**).

With stack password configured, the system logged a large amount of login timeouts (**Q01838853**).

STP status for MLT ports was unexpectedly changed after reboot. (**Q01808492-01**).

Erroneous messages were recorded in the system log if DHCP Snooping was enabled. (Q01835111).

After several authentication tries, a PEAP client failed to be authenticated (Q01862479).

With Status LED blinking, "ROM bad magic number" error was displayed while booting up. (Q01777457).

Some Nortel certified SFP GBICs were not correctly detected and functioned properly (Q01823789).

Under certain conditions, TFTP transfers caused stack corruptions (Q01883214).

ARP spoofing does not protect against a gratuitous ARP from a device configured with the gateway IP address. (Q01849206)

Relayed DHCP offer is dropped by MAC Security (Q01864504).

With autosave disabled and "copy config nvram" command issued quickly after the last configuration command, the latest changes did not get saved in the configuration (Q01837653)

With a specific SSH client, an SSH session to the switch cannot be established (Q01837389-03)

Telnet connectivity not available for a short period of time after the IP address of the switch was changed (Q01812713-01)

File sharing among Wireless users failed when DHCP snooping was enabled (Q01859724).

First EAP ID response was dropped (Q01769619).

## **8. Outstanding Issues**

In order to prevent certain users from advertising their own MAC address as the MAC address of the default gateway, the execution order for QoS ARP Spoofing policies was changed by giving the highest priority to the actual 3rd policy (as described in NN47200-504, "Configuration - Quality of Service" - page 41), the one that drops all ARP packets with a source IP address equal to the identified default gateway. The new execution order for QoS ARP Spoofing policies will be:

1. Drop all ARP packets with a source IP address equal to the identified default gateway.
2. Pass all broadcast ARP requests.
3. Drop all non-broadcast ARP requests.
4. Drop all ARP packets with a target IP address equal to the identified default gateway.
5. Pass all ARP responses.

With auto-negotiation enabled, link flaps would occur on ports for a short period (Q01811832).

## **9. Known Limitations**

None.

## **10. Documentation Corrections**

For other known issues, please refer to the product release notes and technical documentation available from the Nortel Technical Support web site at: <http://www.nortel.com/support> .

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