Ethernet Routing Switch 1424T
Software Release 2.1.6.4

Release Summary

Release Date: Aug 07, 2009
Purpose: Software patch release to address customer found software issues.

2. Important Notes Before Upgrading to This Release

None.

3. Platforms Supported

Ethernet Routing Switch, 1424T

4. Notes for Upgrade

Please see "Release notes for the Passport 1400 Series Switch Software Release 2.1.6.2, available at http://www.nortel.com/support, (select Passport family, then Passport 1424T) for details on how to upgrade your Policy Switch.

File Names For This Release

File Name	Module or File Type	File Size (bytes)
MIB File	PP1424T_2164_mib.zip	370,377
Run-time image	PP1424T-REL-2.1.6.4.had	1,988,298

5. Version of Previous Release

Software Version 2.1.6.2

6. Compatibility

This software release is managed with Java Device Manager (JDM) release 5.7.0.0

7. Changes in This Release

New Features in This Release
None.
Old Features Removed From This Release
None.

Problems Resolved in This Release

1. Description: Intermittent autonomous resets may be encountered on the ERS1424.

   Root Cause: For ports 1 through 24 a HW link scan is used to monitor and control the port link status. A SW based link scan is implemented on ports 25 and 26. Intermittently the H/W link scan may encounter a condition related to the MII control register returning busy when we want to read the phy info. This condition interferes with the SW link scan capability and an autonomous reset of the switch is triggered.

   Solution: The solution to this issue is to use the S/W link scan functionality across all ports. This avoids the H/W contention encountered on the MII control register.

2. Description: With auto-negotiation disabled and the link disconnected, the status of the port may toggle up/down with ambient light levels.

   Root Cause: Root cause of this behavior has been found to be due to the sensitivity of the PHY.

   Solution: Link behavior has been addressed with auto-negotiation disabled by validating the link up event with the S/W link scan. If the link is not truly up, the PHY is disabled.

3. Description: After an uptime of approximately 25 days, the SNMP sysUpTime OID will return an invalid value.

   Root Cause : After 25 days, the MIB value sysUpTime is incorrect as the 1424 accumulates the uptime value in milliseconds. After 25 days the value returned to SNMP queries is incorrect due to a buffer overflow.

   Solution：Return the time ticks to SNMP queries directly.

4. Description : After approximately 100 days of uptime, the system log of the 1424 begins to show incorrect information in the log display:
   Incorrect example: "825243748 108d23h37m"
   Correct example: 2387 108d23h37m System started up

   Root Cause : When populating the string buffer that is used to store the message, the buffer is not cleared first and the buffer length is not checked. When the system has been running for more than 100days, the log display will wrap and appear corrupted.

   Solution: The buffer is now cleared prior to displaying the log and a check for the buffer length has been added.

   Q02052611 tracks problems 3 and 4 above.

5. Description: Telnet to the ERS 1424 fails if the source address is more than 30 hops away

    Root Cause: The Default TTL value for the ERS 1424 was set to 30.

    Solution: Adjusted the TTL of outbound IP packets originated from the ERS 1424 to be 255.

8. Outstanding Issues

None.

9. Known Limitations

For known issues, please refer to version 1.2 release notes on the Nortel Networks Web site at:
http://www.nortel.com/support.

10. Documentation Corrections

None.

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.

To access more technical documentation, search our knowledge base, or open a service request online, please visit Nortel Technical Support on the web at: http://www.nortel.com/support