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Santa Clara, CA 95054

# Release Notes for the Passport 1000 Series Switch Software Release 2.1.3.0



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## Introduction

These release notes for Nortel Networks\* Passport\* 1000 Series software release 2.1.3.0, describe bug fixes since software release 2.1.2.0, and describe known issues that exist in this software release. These release notes are to be used in conjunction with the previously released Passport 1000 Series 2.1—2.1.2 release notes available on the Nortel Networks documentation Web site at the [www.nortelnetworks.com/documentation/](http://www.nortelnetworks.com/documentation/) URL; search terms: Data and Internet and Passport 1000 Series.



**Warning:** This software release requires 32 megabytes (MB) of dynamic random access memory (DRAM). The system will not boot using less DRAM. A memory upgrade kit (AA0011017) is available for the XLR1297SF module to increase DRAM to 32 MB. If your Passport routing switch has less than 32 MB of DRAM, contact your Nortel Networks sales representative or authorized reseller for upgrade options for your switch.

Do not upgrade to release 2.1.3.0 using only 16 MB of RAM. Doing so can cause the Passport switch to crash and block all types of access, including console access and monitor mode access.

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These release notes contain the following topics:

- [“Software updates,”](#) next
- [“Recommendations and information about release 2.1.3.0”](#) on page 5
- [“New access policy support \(release 2.1.3.0\)”](#) on page 5
- [“Bugs fixed in release 2.1.3.0”](#) on page 6
- [“Known issues in release 2.1.3.0”](#) on page 11
- [“Related publications”](#) on page 16
- [“Hard-copy technical manuals”](#) on page 16
- [“How to get help”](#) on page 17

## Software updates

This software release includes updates to the following components:

- Boot Monitor Software Version 2.1.3.0 (p10b2130.img)
- Run-Time Software Version 2.1.3.0 (p10a2130.img)
- Java Device Manager (JDM) Version 5.5 (for Microsoft® Windows® 95, Windows 98, Windows 2000, and Windows NT®: jdm\_win.exe; for UNIX: jdm\_unix.tar.Z)



**Note:** As a precaution, before you upgrade your software from versions 2.0.7.x, 2.1.x, or earlier, back up your current configuration file. Release 2.1.3.0 configuration files contain configuration options that are not compatible with the run-time options of previous versions. Back up the current configuration file before upgrading, in case you must revert to a previous version of the run-time image.

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JDM version 5.5 for Passport 1000 Series software release 2.1.3.0 supports:

- Windows 95, Windows 98, Windows 2000, and Windows NT
- HP-UX, AIX
- Solaris

To run JDM, install the JDM software and the Java Run-Time Environment (JRE) software. For instructions on installing the software, refer to *Reference for the Passport 1000 Series Management Software Switching Operations Release 2.1*.

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## Recommendations and information about release 2.1.3.0

Note the following recommendations and miscellaneous information about Passport 1000 Series software release 2.1.3.0:

- Always set a specific enforced operational configuration (eoc) mode to the highest level of hardware (ARU2 or ARU3) in the chassis, instead of allowing the default eoc mode (which is to the lowest level module in the switch). This setting prevents functionality loss in case a lower revision module is installed in the switch.
- Gigabit LinkSafe™ configurations must have autonegotiation enabled. Setting autonegotiation to False is not supported on gigabit LinkSafe modules in *redundant* configurations. However, autonegotiation can be set to False if a gigabit LinkSafe module is connected in a nonredundant setup to a gigabit module not supporting autonegotiation.
- The use of VRRP on IP subnet-based VLANs is not supported.
- You can now create a maximum of **101** VLANs using software release 2.1 and up; previously, you could create a maximum of 123 VLANs. This number is dependent on the number of MLTs and STGs configured for the Passport switch.
- To initiate a Telnet session from the console, use the CLI command **config sys telnet-client enable**. By default `telnet-client` is disabled on the switch. (Q00054813/145983-1)
- When disabling OSPF on a port, making the port an OSPF passive port, the setting is saved only in binary configuration, not in the ASCII format.

### New access policy support (release 2.1.3.0)

In this release you can enable or disable access-policies for TFTP service. Previously this option was available only for telnet, http, snmp and rlogin.

To enable TFTP service for a specified access-policy, enter the following CLI command:

```
config sys access-policy policy <pid> service  
tftp<enable|disable>
```

This command configures specific policy IDs, *where*

<pid> is the policy ID. Enter a value from 1 to 65535

`enable`|`disable` enables or disables the specified access policy for TFTP service.

In addition, the CLI command **show config verbose** now shows the access-policy information for TFTP service.



**Note:** This feature is not supported in Device Manager.

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## Bugs fixed in release 2.1.3.0

This section describes bugs fixed in the Passport 1000 software release 2.1.3.0, and includes the following topics:

- [“Miscellaneous,”](#) next
- [“CLI”](#) on page 8
- [“MLT”](#) on page 9
- [“IP”](#) on page 9
- [“IPX”](#) on page 9
- [“OSPF”](#) on page 10
- [“VRRP”](#) on page 10

### Miscellaneous

The following miscellaneous bugs were fixed in Passport 1000 Series routing switch software release 2.1.3.0:

- Protocol ID records are now updated correctly when a tagged port in a non-default STG is untagged. (Q000104293-01)
- The configuration of a port which is not a member of any STGs is now properly saved in binary configuration files. (Q00079504)

- When all RADIUS servers are down, the following message is now printed:  
All RADIUS servers are unreachable  
(Q00153457)
- Spanning Tree topology change messages are no longer logged for a link up/down on ports which have STP disabled. (Q00146967)
- The default VLAN ID for tagged ports that do not belong to the default STG can now be modified. (Q00040604-01)
- The Passport 1000 Series switch software has been enhanced to close idle TCP connections more rapidly. (Q00123690, Q00038153)
- A potential port in a blocking state no longer becomes an active member of a protocol-based VLAN. (Q00136075-01)
- The correct MAC address is now displayed in the spanning tree topology change trap. (Q00105717)
- When a module is removed from the switch, the self-fdb entries for the corresponding ports are now cleared. (Q00042756-01)
- When the administrative state of a GIG link-safe port is brought down, the link partner of this port now goes to a down state. (Q00086737)
- The web server on the Passport 1000 Series Switch no longer stops responding after excessive HTTP requests. (Q00092792, Q00093574)
- An ASCII configuration file containing UDPFWD PortFwdlist entries created in Device Manager with blank list names is now successfully loaded on a Passport 1000 Series switch. A default name is now given to these entries. (Q00103410)
- When trying to save a file to flash or PCMCIA which is full, the **save** CLI command now issues the following error message:  
Device <flash/pcmcia> is full  
(Q00103706)
- When configuring an RMON event from the CLI, the type field now takes the correct user specified value. (Q00121928)
- A syslog file is now created on PCMCIA if the flash is full and if syslog is not present on flash. (Q00088538)
- When you create a policy-based VLAN, ports that do not belong to the same STG as the VLAN are no longer allowed to be added to that VLAN. (Q00107771)

- When a potential member of a policy-based VLAN is tagged, the port now becomes a static member of that VLAN. (Q00092453-01)
- When the dynamic route to a network goes off from the routing table, any pre-existing IP filter route to the same network now comes back into the routing table with the next hop of the default route. (Q00084326-01)

## CLI

The following CLI bugs were fixed in Passport 1000 Series routing switch software release 2.1.3.0:

- A new CLI command **config radius clear-stat** has been added to clear radius statistics. (Q00108535)
- The CLI command **config ether <ports> stg <stg-id> stp disable** ignores the ports that do not belong to the specified STG and disables STP on the other ports in the specified range. (Q00086728-01)
- The CLI command **show vlan info fdb-entry** now displays the correct number of MAC addresses displayed.(Q00103161-01)
- The **show stg info status** CLI command now displays the correct number of ports present in the STG. (Q00084324)
- In a Passport 1000 Series switch, correct values are now displayed for IN\_OCTETS count when the **show port stats interface main** CLI command is executed. (Q00048140)
- The Passport 1000 Series Switch no longer gives an error when a tftp boot is attempted from CLI. (Q00086973)
- The CLI commands to add, delete and change the Md5 key for OSPF for a VLAN interface are no longer supported. (Q00045400)
- Directed broadcast status is no longer displayed for a VLAN which is not assigned an IP address. (Q00093763)
- The CLI command **config sys set action resetcounters** now resets the Topology Changes counter to 0. (Q00089598)
- The CLI command **show port info arp** now displays information about IRP ports. (Q00088533).

## MLT

The following MLT bugs were fixed in Passport 1000 Series routing switch software release 2.1.3.0:

- When policy based VLANs are added to a MLT, the MLT configuration is correctly restored after a reboot. (Q00133634)
- When ports of an MLT belonging to a policy-based VLAN are added as not allowed members of that VLAN, they are no longer potential members of that VLAN. (Q00108115)

## IP

The following IP bugs were fixed in Passport 1000 Series routing switch software release 2.1.3.0:

- IP subnet-based VLANs having potential port members now generate a trace instead of a warning message during a re-arp. (Q00045432-01)
- Announce policies now announce local and static routes which are created before the announce policy is enabled.(Q00084321)
- A static route, which was disabled because of the next-hop being deleted, now becomes active in the main routing table when its next-hop interface is re-created. (Q00094349)

## IPX

The following IPX bugs were fixed in Passport 1000 Series routing switch software release 2.1.3.0:

- An IPX brouter now comes up properly across reboots. (Q00168225)
- Changes in the `max-static-sap` value no longer require a reboot to take effect. (Q00085310)
- The maximum length of an input string for a match-netlist/match service list has been changed from 15 characters to 75 characters. (Q00154093-01)
- An inactive static route no longer comes into the main routing table when IPX forwarding is enabled and disabled, or if the switch is rebooted. (Q00084658)

## OSPF

The following OSPF bugs were fixed in Passport 1000 Series routing switch software release 2.1.3.0:

- When you attempt to add a non-existent interface to an OSPF area, the Passport 1000 Series switch now displays the following error message:  
Error: Consistency check failed- OSPF interface not found.  
(Q00088559)
- When you attempt to enable OSPF on a non-existent interface, the Passport 1000 Series Switch now displays the following error message  
Error: Consistency check failed OSPF interface not found  
(Q00133433)
- The NBAREAID field in the OSPF virtual neighbors table now displays the correct neighbor area ID (Q00079502)
- When a Passport 1000 Series switch is connected to another switch through a common NSSA interface, the database description packets exchanged between them now have the NSSA bit set. (Q00103689)
- If an area is configured as an NSSA, the import-summary option can no longer be disabled. (Q00084117)

## VRRP

The following VRRP bugs were fixed in Passport 1000 Series routing switch software release 2.1.3.0:

- The VRRP IP address owner having critical interface down, comes up properly across a binary reboot. (Q00108109)
- If you attempt to assign a network/broadcast address as a VRRP IP address, the following error message is displayed:  
Error: Invalid IP address  
(Q00088539-01)
- The ASCII config file now correctly saves the critical-ip-enable parameter. (Q00108102)

- The multiple VRIDs configured on a single interface will now be stable, even if one of the VRIDs is disabled on that interface. (Q00085051)
- In a Passport 1000 Series switch, the hardware records corresponding to VRRP in GIG revision -B boards are now initialized correctly so that IP unicast packets having a VRRP MAC address as the destination MAC address are properly processed. (Q00086170)
- The CLI command **show ip vrrp info** now displays the VLAN ID in the port column, if the interface is a VLAN. (Q00088557-01)

## Known issues in release 2.1.3.0

The following sections describe known issues with the Passport 1000 software release 2.1.3.0, and include the following topics:

- [“Miscellaneous,”](#) next
- [“IP Multicast”](#) on page 13
- [“OSPF passive ports”](#) on page 13
- [“Unknown MAC discard”](#) on page 13
- [“Large frame support”](#) on page 14
- [“TOS-based priority forwarding”](#) on page 14
- [“Java Device Manager”](#) on page 14

## Miscellaneous

The following miscellaneous issues exist in release 2.1.3.0:

- On attempting the **date** command on a Passport 1100 or a Passport1200 switch without a secondary CPU, the Clock synchronization status is displayed as FAIL as shown in the printout:  

```
Clock Synchronization Status - FAIL
```

(CR-Q00168275)
- If the routing table contains a more specific non-local route and also a less specific route to a network, then the Passport 1200 switch drops traffic to that interface. This is usually the result of a disjointed network configuration. (Q00041599-02)

- When the large size frame feature is enabled, the hardware counter is not aware of the larger allowed frames and continues to count all frames larger than 1514 bytes or when tagged 1518 bytes as “too large.” (125185-1)
- A port name can only be saved in an ASCII configuration file. The port name will not be saved if a binary configuration is used. (126196-1)
- The CLI up and down arrow keys do not work with the history commands in the following instances:
  - On a Solaris system using the command tool to connect to a tip or Telnet session
  - On a Windows NT4 system running JDM to open a Telnet sessionUse Ctrl-P and N instead of arrow keys. (117470-1)
- The CLI will not accept question marks (?) or semicolons (;) in command strings. This rule applies to the loginprompt, passwordprompt, and prompt. Use the following formats when entering commands:
  - `config cli loginprompt <string>`
  - `config cli passwordprompt <string>`
  - `config cli prompt <string>`(117489-1)
- Progress indicators do not work when copying a file from PCMCIA to flash or from flash to PCMCIA. (117491-1)
- For MLT counters, the outgoing broadcast packets are counted as outgoing multicast packets and the outgoing broadcast counter remains at zero. The outgoing multicast packet counter is incremented. (121756-1)
- Passport switches cannot detect link flaps with less than a 0.5 second interval. (129252-1)
- An interoperability issue has been observed under the following conditions that cause the Passport 1000 Series Switch to reset:
  - A Dell or Compaq laptop PC using Windows 2000 is repowered while connected to the console port of the Passport 1000 Series Switch.
  - Dell or Compaq laptop PC using Windows 2000 is connected to the console port of the Passport 1000 Series switch for an extended period of time without running an active application such as hyperterm. (Q00064666/138370-1)

## IP Multicast



**Caution:** Nortel Networks does not recommend or support IP Multicast with IGMP or DVMRP on the Passport 1000 platform. If your network design requires the use of multicast protocols, contact your sales representative to discuss possible Passport 8000 solutions.

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## OSPF passive ports

The following OSPF passive port issue exists in release 2.1.3.0:

When disabling OSPF on a port, making the port an OSPF passive port, the setting is saved only in the binary configuration.

## Unknown MAC discard

The following unknown MAC discard issues exist in release 2.1.3.0:

- An ARP request or reply from any station will not cause the MAC address to be AutoLearned. (107649)
- After enabling AutoLearn on a port, previously existing ARP entries and fdb entries must be flushed; otherwise, they will not be reachable or AutoLearned. To remedy this situation, flush the MAC fdb tables and the ARP cache for the AutoLearn port.
- BootP and DHCP traffic will not be autolearned. Rather, an IP address will be assigned but will not be able to communicate unless the MAC address of the client is manually added to the allowed MAC table.

## Large frame support

The following large frame forwarding support issue exists in release 2.1.3.0:

Using the large frame support and the tagging feature simultaneously on 10/100 Mb/s Ethernet interfaces in the following situations corrupts the frames so that the frames all reach 1600 bytes:

- Untagged large frames (1536 to 1596 bytes) passing through tagged ports
- Tagged large frames (1544 to 1596 bytes) passing through untagged ports

Gigabit ports do not experience this problem. (126418-1)

## TOS-based priority forwarding

The following TOS-based high-priority forwarding issue exists in release 2.1.3.0:

The threshold is checked on the frame's ingress, and the value is not rechecked afterwards. If you change the priority after the frame ingresses the port, that change remains ineffective. (117891-1)

## Java Device Manager

The following Device Manager issues exist when used with Passport 1000 Series software release 2.1.3.0:

- The following restrictions apply when selecting multiple ports using `Ctrl+Click`.
  - Redundant Gigabit ports cannot be selected along with ports without redundancy, for example, an SX port and SR port cannot be selected at the same time.
  - Ports on a Passport 1216FX module cannot be selected along with any other type of port except for 10/100Mbps TX port.

In such cases, use the following Device Manager workaround to select multiple ports of different types:

- Select one set of similar ports you want to edit or graph.
- Select the next set of similar ports you want to edit or graph.

The Device Manager screens and dialog boxes are displayed so you can view side-by-side comparisons. (139953-1)

- To flush a sender's table in Device Manager:
  - Select the first entry in the sender table.
  - Select the last entry in the sender table using the Shift key to highlight all table entries.
  - Press Delete.

All highlighted entries are deleted.

To sort a table, click the column heading. This action provides an entry sequence if you want to delete multiple tables. A maximum of 200 entries can be selected at any time. (137882-1)

- When working with pull-down menus, sometimes you cannot deselect the menu item after you have selected it.

To deselect the menu item, press [Ctrl] + right-click on the mouse. (126629-1)

- The path to the xterm binary needs to be added to the PATH variable to allow Device Manager telnet sessions. (120711-1)
- The port names do not appear in most displays or in statistics, logs, or traps. These names appear on the Edit Port tab. The port names also appear when using the CLI command **show ports info name [<port>]**.
- Inactive IPX static routes are not displayed in Device Manager.
- The IPX route table from Device Manager does not provide the number of routes used by the table. To see the number of routes used, click the Refresh button at least once. (144839-1)

## Related publications

For additional information, refer to the following Passport 1000 Series documentation available on the Nortel Networks Customer Service Documentation Web page ([www.nortelnetworks.com/documentation](http://www.nortelnetworks.com/documentation)):

- *Reference for the Passport 1000 Series Management Software Switching Operations Release 2.1*
- *Reference for the Passport 1000 Series Management Software Routing Operations Release 2.1*
- *Release Notes for the Passport 1000 Series Switch Software Release 2.1.2.0.*
- *Using the Passport 1000 Series Switch*

## Hard-copy technical manuals

You can print selected technical manuals and release notes free, directly from the Internet. Go to the [www.nortelnetworks.com/documentation](http://www.nortelnetworks.com/documentation) URL. Find the product for which you need documentation. Then locate the specific category and model or version for your hardware or software product. Use Adobe Acrobat Reader to open the manuals and release notes, search for the sections you need, and print them on most standard printers. Go to Adobe\* at the [www.adobe.com](http://www.adobe.com) URL to download a free copy of the Adobe Acrobat Reader\*.

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## How to get help

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If you purchased a Nortel Networks service program, contact one of the following Nortel Networks Technical Solutions Centers:

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EMEA	(33) (4) 92-966-968
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Asia Pacific	(61) (2) 9927-8800
China	(800) 810-5000

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