

Part No. 214090-C Rev 00  
May 2003

4655 Great America Parkway  
Santa Clara, CA 95054

# Release Notes for the Passport 1424T Layer 3 Switch Software Release 2.1



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# Contents

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Introduction .....	7
File names for this release .....	7
Supported software and hardware capabilities .....	8
Aggregation groups .....	9
Upgrading to release 2.1 .....	10
New features .....	10
Bugs fixed in release 2.0.1 .....	11
CLI .....	11
VLANs .....	11
RIP .....	12
OSPF .....	12
Bug fix in release 2.1 .....	12
Known issues and considerations .....	12
Hardware and platform .....	13
CLI .....	13
Layer 2 .....	15
Management .....	16
Web Management interface .....	16
JDM .....	17
IP unicast routing .....	19
OSPF .....	19
QoS .....	19
Miscellaneous .....	20
IP multicast routing .....	20
Related publications .....	20
How to get help .....	21



## Introduction

These release notes describe the Nortel Networks\* Passport 1424T routing switch 2.1 software, its file names, upgrade process, and supported software and hardware capabilities. They also describe bug fixes that have been implemented since release 2.0, as well as known issues and bugs that still exist in release 2.1.

The following topics are discussed in this document:

Topic	Page
<a href="#">File names for this release</a>	7
<a href="#">Supported software and hardware capabilities</a>	8
<a href="#">Upgrading to release 2.1</a>	10
<a href="#">Bugs fixed in release 2.0.1</a>	11
<a href="#">Known issues and considerations</a>	12
<a href="#">Related publications</a>	20
<a href="#">How to get help</a>	21

## File names for this release

The Passport 1424T Routing Switch software release 2.1 contains the following files:

Name	Description
PP1424T_210.had	Run-time image file
JDM 5610	Supported JDM version
PP1424T_210_.mib.zip	MIB zip file
<b>Supported MIB files</b>	
<b>Private MIBs</b>	
commgmt.mib	L3mgmt.mib
dvmrp.mib	PriL3mgmt.mib
framework.mib	rapid_city.mib
iana_rtproto.mib	S5emt103.mib

Name	Description
L2mgmt.mib	S5roo114.mib
S5tcs112.mib	synro185.mib
<b>RFC MIBs</b>	
RFC 1213 (MIB-II)	RFC1850.mib (OSPF-MIB)
RFC1215.mib (MIB)	RFC2021.mib (RMON2-MIB)
RFC1493.mib (BRIDGE-MIB)	RFC2096.mib (IP-FORWARD-MIB)
RFC1513.mib (TOKEN-RING_RMON-MIB)	RFC2233.mib (IF-MIB)
RFC1643.mib (EtherLike-MIB)	RFC2674.mib (P-BRIDGE-MIB)
RFC1724.mib (RIPv2-MIB)	RFC2932.mib (IPMROUTE-STD-MIB)
RFC1757.mib (RMON-MIB)	RFC2933.mib (IGMP-STD-MIB)

The Passport 1424T Routing switch MIB files can be found on the Nortel Networks Web site, <http://www.nortelnetworks.com>

To access the MIB files:

- 1 Under Support, select Software Downloads.
- 2 Under Software, choose Passport.
- 3 Under Passport 1424T Routing Switch, choose Software.

## Supported software and hardware capabilities

[Table 1](#) describes the software and hardware capabilities for release 2.1.



**Table 1** Hardware and Software capabilities

Hardware / Software	Capabilities
Hardware records	4096
VLANs	255
Spanning Tree Groups	1
Aggregation groups (MultiLink Trunking (MLT))	6
Ports per MLT group	up to 8
IP interfaces per switch	128
IP routes per switch	2000
RIP routes per switch	2000
OSPF routes per switch	2000
DVMRP routes per switch	250

## Aggregation groups



**Note:** Aggregation groups are statically compliant with the IEEE 802.3ad standard.

## Upgrading to release 2.1

This section describes how to upgrade to the Passport 1424T Routing switch software release 2.1.



**Caution:** Before upgrading to release 2.1:

1. Back up the current configuration file.
  2. Take special note that the configuration file generated with Passport software release 2.1 contains options that are not backward compatible with Passport software release 2.0.1. Loading a 2.1 configuration file on a 2.0.1 run-time image generates errors and causes the image to abort loading the configuration file.
- 

- To backup the current configuration file currently used by the Passport 1424T Routing switch, use the following command:

```
#save
```

- To upload the configuration file, use the following command:

```
#upload config <tftp_server_ip> <path_filename>
```

- To upgrade the Passport 1424T Routing switch to version 2.1, execute the case-sensitive CLI command:

```
#download firmware <tftp_server_ip> <path_filename>
```

Example:

```
#download firmware 10.10.10.2 \image\PP1424T_210.had
```

- After you upgrade your Passport 1424T Routing switch software, make sure you save the configuration file.

## New features

The two major feature introduced in the 2.1 release include:

- Java Device Manager (JDM) support (autotopology protocol and MIBs)

For more information on JDM, see *Installing and Using Device Manager*, part number 316597-A.

- XD, ZX, and 1000BaseT Gigabit Interface Converter (GBIC) support

In this release, the Passport 1424T Routing switch supports the following GBICs:

- AA1419041 1-port 1000BaseT (100 meters, Category 5)
- AA1419001 1-port 1000Base-SX
- AA1419002 1-port 1000Base-LX
- AA1419003 1-port 1000Base-XD- 50 km
- AA1419004 1-port 1000Base-ZX- 70km



**Note:** The 1000BaseT GBIC (AA1419041) does not support auto-negotiation.

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## Bugs fixed in release 2.0.1

This section describes bugs that have been fixed in the Passport 1424T Routing switch software release 2.0.1, and includes the following bugs-fixed topics:

### CLI

In the CLI command, `create vlan v2 tag 2`, the `tag` variable has been renamed to `vid.`, which stands for vlan id. The switch now accepts the command `create vlan v2 vid 2`. (Q00563890)

Example:

Old command: `create vlan <vlannname> tag <vid>`

New command: `create vlan <vlannname> vid <vid>`

### VLANs

- The Passport 1424T Routing switch supports 255 static VLANs. (Q00567872)
- When creating VLANs, if the VLAN ID is not specified, it is assigned an ascending number from 2 to 4095. (Q00568731)

Example: `create vlan <vlannname>`

## RIP

When a RIP interface is disabled, that interface is removed from the IP routing table. (Q00576935)

## OSPF

- When a Passport 1424T Routing switch functions as a Border router, OSPF external routes will no longer take route preference over RIP routes.
- After topology changes, IP traffic is routed to the correct “next hop”. (Q00580886)

## Bug fix in release 2.1

The following platform bug has been fixed in software release 2.1:

- The 1424T switch accepts blank entries for login names and then asks for a Password, instead of continuously prompting for a login name. If you press Enter after the login prompt, however, the switch continues to display Login, and does not go on to the Password prompt. (Q00617939)

## Known issues and considerations

The following topics describe issues known to exist in the Passport 1424T Routing switch software release 2.1 and include the following topics:

Topic	Page
<a href="#">Hardware and platform</a>	13
<a href="#">Layer 2</a>	15
<a href="#">Management</a>	16
<a href="#">IP unicast routing</a>	19
<a href="#">OSPF</a>	19

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Topic	Page
<a href="#">QoS</a>	19
<a href="#">Miscellaneous</a>	20
<a href="#">IP multicast routing</a>	20

## Hardware and platform

- The console pinouts for a DCE to DTE when connecting to the Nortel Networks Remote Annex terminal server are as follows:

Color	Pin
Green	2
Black	3
Brown	4
Yellow	5
Orange	6
White	7
Blue	8

- CWDM GBICs are not supported in this release. Nortel Networks will provide support for these GBICs in a subsequent release (Q00566241).

For more information on the GBICs that are supported in the Passport 1424T software release 2.1, see [“New features” on page 10](#).

## CLI

- Uploading a configuration file to a remote TFTP server using the CLI command `upload config <remote IP address> <remote file name>` will fail if this file already exists on the remote directory. It is recommended to rename the file on the remote folder before the transfer, or to change the name of the file during the transfer. (Q0051937)
- Once a MAC filter is created, you are not able to modify it using the CLI. No CLI command currently exists for this function. From the CLI you will be able only to create and delete a MAC filter. Modifications can be done using the Web Management interface. (Q00526074)

- Once an IP filter is created, you will not be able to modify it using the CLI. No CLI command currently exists for this function. From the CLI you will only be able to create and delete an IP filter. Modifications can be performed using the Web Management interface. (Q00526182)
- The CLI command syntax does not work as displayed in the CLI help command line to configure link aggregation. Use the following command to configure the master and ports to be members of a link aggregation group.  

```
#config link_agg group <group_id> master <port_list> port <port_list>
```

(Q00532025)
- User accounts are *not* saved in NVRAM. If the switch is reset to factory defaults, using the reset system CLI command, a downloaded configuration (saved configuration file) will not restore any user accounts. You must manually re-create these accounts. (Q00541275)
- When you issue the `save` command in the CLI, be aware that the progress indicator does not appear in ascending order. For example, it shows 0%, 50%, 45%, 75%, 90%, and then 100%. (Q00620772)
- When you enter the CLI with a username and access level of user, the `sh session` or `sh account` commands are not recognized. (Q00624517)
- If you enter the `config ports` command, `portlist`, and `speed` and then follow it with a question mark (?), the CLI indicates that you can select the speed for the 10/100 ports as `1000_half` and `1000_full`. For the Gigabit ports, the CLI indicates that you can select the 10/100 port speed as `10_half`, `10_full`, `100_half`, and `100_full`. This selection of speeds is misleading since Gigabit options are not valid entries for 10/100 ports. In addition, the `1000_half` option is not valid. (Q00563842-01, Q00617980, and Q00580008-01)
- Should you enter the `traceroute` command and specify an unknown destination, you will have to wait for the traceroute to complete 30 hops. There is no option available to stop the traceroute before it finishes. (Q00627471)
- When you enter the `config 802.1p user_priority` command and follow it with `priority` and `class_id` values, these values are not accepted. If you then enter the `sh priority` command, you will see that the QoS priority has not been set. (Q00618955)

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## Layer 2



**Caution:** Nortel Networks strongly recommends that you do not use the Passport 1424T as the root bridge in a configuration including a Passport 8600. If the 1424T is the root bridge, one of the MLT links on the 8600 can be in forwarding state, but other links would stay in the listening state. To change the priority on the Passport 8600, use the CLI command: `config stg <stg-id> priority` where priority must be lower than the priority used on the 1424T. To change the priority on the Passport 1424T, use the CLI command `config stp priority <value 0-65535>`. The lower the STP priority, the greater the chance to become the root bridge. (Q00556194)

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**Note:** The Passport 1424T does not support multiple instances of the Spanning Tree Protocol (STP).

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- In this release, you can choose only IP destination as your load balancing algorithm. Nortel Networks is working to provide IP source and IP source-destination as alternative selections in a subsequent release. (Q00524847)
- The CLI and Web Management are inconsistent for creating MAC filters. To create a MAC Filter, use the CLI command:  

```
create fdbfilter <mac address> <dsts src either>
```

To create a MAC Filter using the Web Management interface, follow these steps:
  - a open folder Advanced Setup
  - b open folder Forwarding
  - c open folder MAC Forwarding
  - d open Static Unicast Filtering Table(Q00526105)

- Intermittently, when attempting to delete a VLAN using the Web Management interface, an error window open with the following message displayed: “You can't delete the VLAN which is used by IP subnet” and the VLAN will not be deleted. This error message appears even if the IP address has been deleted. Use the CLI command `delete vlan <vlan name>` to perform this task. (Q00519035)
- When a 10/100 port belongs to a link aggregation group, and if you change the speed of this port, you can still see the link status as being up after disabling this port. (Q00550148)
- A link aggregation group may drop a port member when only the master port of the group is changed. (Q00555985)
- The 1424T does not keep a static ARP in its entry when you disable the ports belonging to the VLAN where the static ARP has been configured. You have to manually reenter the static ARP after reenabling the port. (Q00627418)
- When you poll the MIB status of an untagged port using the dot1qPvid MIB, the returned value corresponds to the PVID (Port VLAN ID). For a tagged port, the dot1qPvid returns a value of 0, and is read only. (Q00609661)
- The Passport 1424T does not perform a consistency check when you modify the Max Age value. STP configurable parameters values are linked by the following rules:
  - a**  $2 \times (\text{Bridge\_Forward\_Delay} - 1) \geq \text{Bridge\_Max\_Age}$
  - b**  $\text{Bridge\_Max\_Age} \geq 2 \times (\text{Bridge\_Hello\_Time} + 1)$Before making any modification, please follow these rules, otherwise the *Fail!* message appears on the console. (Q00613275)

## Management

Management issues include both the Web Management interface and JDM, each of which is explained in the subsections that follow.

### Web Management interface

- Certain Web browsers may log you out of your session when you enter the `refresh` command in the Web Management interface. To restart your session, you will be required to log in and complete the authentication process. If you experience this problem, choose an alternative Web browser. (Q00518414)



- When using the Web Management interface, the picture of the switch displays the wrong MDA when using Netscape version 4.61. Nortel Networks recommends that you use a subsequent release of Netscape to display the correct MDA. (Q00515841)
- When using the Web Management interface, the link aggregation groups are not displayed correctly. Nortel Networks recommends you use the CLI interface to view the correct configuration of these aggregation groups. (Q00516479)
- When using the Web Management interface, and displaying the OSPF parameters, the Neighbor Table duplicates the first entry. (Q00517641)
- When using the Web Management interface, on the Port Configurations page, the Connection field for the Link Aggregation group is not refreshed correctly. For example, if you first select the GBIC port (by clicking on the GBIC port), the connection field displays 1000M/Full/None, and after selecting any of the Link Aggregation ports, the connection field still displays 1000M/Full/None, which is incorrect. (Q00515849)
- When using the Web Management interface, the screen for DVMRP neighbor table is not correct. Please use the CLI to display the correct information. (Q00516517)
- The total number of VLAN entries is always one more than the actual number of VLANs. (Q00516595)
- Nortel Networks does not recommend that you use the Web Management interface to download a configuration/image from a remote TFTP server. Use the CLI to perform this task. (Q00550286)
- If you select an existing Route Redistribution entry for edit, the source and destination protocols appear with a pull down arrow indicating they can be modified. However, no other selection is available. (Q00519347)

## JDM

- In this release, 1000BaseT GBICs are not recognized by the JDM if they are inserted in port 26, the second MDA port. (Q00667411)
- The 1424T does not keep a static ARP in its entry when you disable the ports belonging to the VLAN where the static ARP has been configured. You have to manually reenter the static ARP after reenabling the port. (Q00627418)

- When you use JDM to configure a link aggregation group, you should always modify the Master port. Do not modify the other ports of the group since modifying them (disabling, changing their characteristics etc.) produces inconsistent behavior. This recommendation is valid only for JDM. (The consistency is achieved in the CLI). (Q00625850)
- No option is available to check whether dynamic learnt ARPs are purged when the switch connection is lost after the ARP aging time. Nortel Networks will provide support for this feature in a future release. (Q00627397)
- Should you change the Priority, StpState, Bridge Maximum Age, Bridge Hello Time, and Bridge Forward Delay values in the JDM and then enter `sh stp` in the CLI, you will notice the `sh stp` session is not updated immediately. Instead, you have to stop the session and then run the command again to see the correct values. (Q00613272)
- The Passport 1424T allows you to enable the MulticastRouterOnly option and IGMP Snooping separately. If you enter the `enable igmp snooping` command in the CLI, it simultaneously enables IGMP snooping and disables the MulticastRouterOnly option. (Q00634098)
- When you poll the MIB status of an untagged port using the dot1qPvid MIB, the returned value corresponds to the PVID (Port VLAN ID). For a tagged port, the dot1qPvid returns a value of 0, and is read only. (Q00609661)
- The CLI command `sh fdb port <ports>` now has an equivalent in the JDM. A Filter button has been added to the MAC FDB table. Should you click on this button, a Filter dialog displays.

Select Port, enter the port number, and click on Filter. The data in the MAC FDB table then changes to display only those items matching the filtering criteria you set. Using the Filter function, you may view only certain ports, VLAN IDs, or addresses. (Q00619532)

- With port mirroring, port 0 is the default TargetPort. Thus, there is no target port. In the CLI and JDM, you can modify the TargetPort to reflect the ports on the switch. In JDM, you can configure the TargetPort to 0 if necessary. The CLI will not allow you to select port 0, however. (Q00613333)

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## IP unicast routing



**Note:** Forward to Next Hop filters are not supported in this release. Nortel Networks is working to provide this functionality in a subsequent release. (Q00519909)

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## OSPF

- The Passport 1424T Routing switch will properly function as a Border OSPF router when there is only one source for all OSPF external routes announced into the OSPF network. If there are multiple sources for those external routes then the following issues may occur:
  - Some topology changes may cause IP traffic to be sent back through the incoming interface. (Q00595775)
  - When the IP interface on the shortest path is disabled, IP traffic may be routed to the wrong interface. (Q00600135)
  - When RIP is disabled globally on the Passport 1424T Routing switch, which is configured as an ASBR, the OSPF redistribution policy may not function properly. (Q00600140)
- When you configure an active address range in the backbone and an OSPF virtual link in the non-backbone area, the DUT summarizes the backbone networks to the transit network. As per RFC 1583, the backbone's configured ranges should be ignored when originating non-summary LSAs into transit areas. (Q00617676)
- When a network was previously reachable via an inter-area path, but is now only reachable by an inter-area path, the DUT sets the inter-area path's LSA to MaxAge. As per RFC 1583, the DUT should generate a new LSA for the inter-area path since the network is still reachable. (Q00617685)

## QoS

The 1424T ships with all 4 egress queues set for strict queuing. You can set up Weighted Round Robin (WRR) queuing. However, this requires that you enter the CLI `config scheduling` command to set up 3 queues for WRR and 1 queue for strict queuing. For more information on setting up the queues, see the *Passport 1424T v2.1 CLI Reference Guide*, part number 214389-B. (Q00623780)

## Miscellaneous

The ability to use the Bootp/DHCP client on the System interface (i.e., the in band management port) is not available. Thus, you must manually configure the IP address on the management interface. (Q00585867)

## IP multicast routing

- The CLI and the Web Management interface do not display all IGMP memberships. (Q00515840)
- The *Expire Timer* variable starts at 7000 for entries in the IP Multicast Forwarding Table. The default timer used on the Passport 1424T Routing Switch for IP multicast routes is 120 seconds (timeout). Routes with active streams should have an *Expire Timer* starting at 120. If a *Prune* message is received, the *Expire Timer* will be set to 7000 (prune lifetime) after decrementing to 0 from 120.

Once a *Join* is received, the *Expire Timer* will again be reset to 120. The timer will refresh to 120 as long as the stream is active. (Q00516508)

- The IP Router Alert option is not supported in the 1424T Release 2.1. Yet, it still accepts report messages. As per RFC 2236, the 1424T should drop report messages instead of accepting the packets. Nortel Networks plans to support the Router Alert option in a future release. (Q00631024 and Q00631030)

## Related publications

For more information about the Passport 1424T Release 2.1, refer to the following publications:

### Installation and User Guides

*These guides provide instructions for installing the chassis, the Device Manager software, and finally describe the tasks involved in using the 1424T switch.*

Installing the Passport 1424T Series Layer 3 Switch	316867-A
Installing and Using Device Manager	316597-A
Using the Passport 1424T Series Layer 3 Switch	213935-B

## Reference and Configuration Guides

*These guides provide reference and configuration information, including...*

Command Line Interface Reference Guide for the Passport 1424T Series Layer 3 Switch	214389-A
Configuring IP Routing Operations: VLANs, STP, and MLT using Device Manager	316592-A
Configuring IP Filters and QoS Using Device Manager	316594-A
Configuring Network Management and Diagnostics using Device Manager	316596-A
Configuring Layer 2 Operations: VLANs, STP, and MLT using Device Manager	316595-A
Configuring IP Multicast Operations using Device Manager	316593-A

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## How to get help

If you purchased a service contract for your Nortel Networks product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Nortel Networks service program, contact Nortel Networks Technical Support. To obtain contact information online, go to the [www.nortelnetworks.com/cgi-bin/comments/comments.cgi](http://www.nortelnetworks.com/cgi-bin/comments/comments.cgi) URL, then click on Technical Support.

From the Technical Support page, you can open a Customer Service Request online or find the telephone number for the nearest Technical Solutions Center. If you are not connected to the Internet, you can call 1-800-4NORTEL (1-800-466-7835) to learn the telephone number for the nearest Technical Solutions Center.

An Express Routing Code (ERC) is available for many Nortel Networks products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate an ERC for your product or service, go to the <http://www.nortelnetworks.com/help/contact/erc/index.html> URL.