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Release Notes for the BayStack 425 10/100/1000 Switch Software Version 2.0.0



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Introduction

These release notes contain important information about Nortel Networks BayStack 425 10/100/1000 Switch, software version 2.0.0, and operational issues not included in the BayStack 425 10/100/1000 Switch documentation. For a list of BayStack 425 10/100/1000 Switch documentation, refer to [“Related publications” on page 11](#).

These release notes cover the following topics:

- [“Software version and compatibility information,”](#) next
- [“BayStack 420 10/100/1000 comparison” on page 4](#)
- [“Known issues” on page 5](#)
- [“Known limitations” on page 7](#)
- [“Documentation changes” on page 8](#)
- [“Adding comments to CLI scripts” on page 9](#)
- [“Restoring a lost password” on page 9](#)
- [“Related publications” on page 11](#)
- [“How to get help” on page 12](#)

Software version and compatibility information

The BayStack 425 10/100/1000 Switch software version 2.0.0 release includes the following files:

- **bs425_20015.img**—the software image file for the device, version 2.0.0.15
- **bs425diags_2006.bin**—the boot code for the device, version 2.0.0.6
- **bs425mibs_20012.zip**—the MIB files for the device, version 2.0.0.12

These files are available for download at the Nortel Networks customer support site at www.nortelnetworks.com/support.

4 BayStack 420 10/100/1000 comparison

The BayStack 425 10/100/1000 Switch software version 2.0.0 release has the following software compatibilities:

File	Version
Agent (software image)	2.0.0.15
Firmware (boot code)	2.0.0.6
MIB Files	2.0.0.12
Application	Version
Device Manager	5.7.1
Java Runtime Environment (JRE)	1.4.1
Optivity NMS	10.1.0.1
Optivity Integration Toolkit (OIT)	v200A. Package name: NMS_BS425_24T_v200A
Optivity Switch Manager (OSM)	Scheduled for 4.0
Optivity Policy Services (OPS)	N/A

BayStack 420 10/100/1000 comparison

The BayStack 425 10/100/1000 Switch, software version 2.0.0 is similar to the BayStack 420 10/100/1000 Switch, with the following major differences:

- Hardware
 - Two shared gigabit ports
 - User Interface button
 - No base selector button
- Software
 - Firmware download via SNMP
 - Autonegotiation Advertisements feature

For more detailed information about these key differences, refer to the BayStack 425 10/100/1000 Switch documentation. For a list of BayStack 425 10/100/1000 Switch documentation, see [“Related publications” on page 11](#).

Known issues

The following section discusses the known issues with the BayStack 425 10/100/1000 Switch software version 2.0.0:

- Under high traffic conditions, port error statistics may increment at a slower rate than the actual count. (Q00436730, Q00169766)
- There may be some discrepancy between the actual amount of time it takes for MAC addresses to be aged and the configured aging time. It may be equal to or greater than the aging time that is set. (Q00436722)
- When using MAC address security, the unit will enter intruder MAC addresses in the address learning table, but those addresses will never age out. (Q00584754)
- When using port mirroring, all packets that exit the monitor port are tagged. (Q00569203)
- The Device Manager allows VLAN membership to be modified after the removal of all ports from management VLAN #1. (Q00695826)
- When selecting Edit > Unit in the Device Manager, the dialog box incorrectly displays CardMda instead of Unit. (Q00696950)
- When using the Device Manager to configure the device, AutoPVID is not available. (Q00594814)
- The autonegotiation advertisements feature is not supported for ports 25 or 26 in this release. (Q00697804)
- Flow control is not negotiated as part of the autonegotiation exchange for gigabit ethernet ports. (Q00593496)
- If an unsupported GBIC is inserted in the device, the Web-management interface will incorrectly show NONE for ports 25 and 26. (Q00699390)
- The diagnostic file cannot be downloaded using the Device Manager. (Q00708144)
- ASCII configuration file download via the Device Manager is not supported in this release. (Q00614446)
- Using the Device Manager, the ARP table may display some addresses as learned on a port even if that port is inactive. (Q00611667)
- Optivity Switch Manager does not support this device. (Q00695751)

- It is possible for the user to accidentally disable password access to the console interface by entering the following command:

```
cli password rw <username>
```

This command specifies the username, which is not used by the system, but does not specify a password. This creates a null password that the user cannot enter to gain access to the CLI, locking the user out of the CLI. The correct command is:

```
cli password rw <username> <password>
```

The command requires that the user enter a username before they enter a password even though the username is disregarded by the system. If a null password is accidentally set, refer to [“Restoring a lost password” on page 9](#) for information on resetting the password. (Q00611658)

- When using the CLI to change the Spanning Tree Protocol (STP) for the switch or entire stack, STP will also be changed for the multilink trunk. Workaround is to use the console interface to change the STP. (Q00558519)
- When using the CLI, you cannot enable autonegotiation on a fiber link up. Use the console interface to enable autonegotiation. (Q00699755)
- If the Boot Mode is set to BootP Always, the MAC address FF-FF-FF-FF-FF-FF is displayed in the last position of the MAC address table. (Q00614452)
- When configuring MLT links, you must ensure that both sides of the MLT have the same STP configuration. Failure to configure both sides of the MLT with the same STP capabilities can yield unpredictable results. (Q00597129)
- When a BayStack 425 Switch is connected to a BayStack 420 stack through MLT, if the devices are all reset at the same time, the STP root is not elected and the path cost is not correctly calculated when the devices restart. This has no effect on STP functionality. (Q00703769)
- When STP is disabled, BPDUs are not forwarded across the switch. (Q00703438)
- The CLI command show stack-info improperly displays information for a cascade module. This device does not support a cascade module and stacking is not supported in this release. (Q00707716)
- Both sides of a link must be configured identically in terms of autonegotiation, speed, duplex and flow control.
- You cannot disable autonegotiation on a 1000BaseT connection. You must keep autonegotiation enabled on copper Gigabit ports. (Q00716500)

- When using MLT, the MAC address table displayed using the CLI may not be correct. When using MLT, you should use the console interface to display the MAC address table. (Q00715574)
- The CLI will not display an error message when duplicate members are added to an MLT. (Q00726564)
- When a port is administratively disabled, the port will still provide a link signal to the connected device. (Q00728619)
- If you use an unsupported SFP GBIC, even though traffic flows through that port, the System Configuration menu and the Hardware Unit Information menu will not display GBIC information. (Q00693450)
- The following SNMP objects refer to features that have not been implemented:
 - rcVlanProtocolId
 - rcVlanSubnetMask
 - rcVlanPortDiscardTaggedFrames
 - dot1qPortIngressFiltering(Q00687734)
- When attempting to change the speed while the switch is running at a high rate of traffic, the Spanning Tree Protocol (STP) does not work properly for a configuration containing two redundant links. To change the speed: disable the links, change the speed, and then re-enable the links. (Q00691614)

Known limitations

The following limitations are known to exist for the BayStack 425 10/100/1000 Switch Software Version 2.0.0:

Stacking

With software version 2.0.0, the stacking capability of the BayStack 425 10/100/1000 Switch is not enabled. The stacking feature will be enabled in a future software release.

User Interface button

The User Interface button on the front panel of the BayStack 425 10/100/1000 Switch is not enabled in software version 2.0.0.

Small Form Factor Pluggable (SFP) GBIC and 1000BaseT ports

The BayStack 425 10/100/1000 Switch provides two SFP-GBIC ports and two 1000BaseT ports instead of one GBIC port as offered on the BayStack 420 10/100/1000 Switch. Only the LX and SX versions are supported in this release.

The SFP GBIC and the 1000BaseT connectors of port 25 share resources. Only one of the two connectors for port 25 is active at any one time.

The SFP GBIC and 1000BaseT connectors of port 26, and the stack connector on the back of the unit all share resources.

Neither the SFP GBIC nor the 1000BaseT connector for port 26 is available if stacking is enabled (in a future release). If stacking is disabled (as it is in software version 2.0.0), only one of the two connectors for port 26 will be active.

Documentation changes

This section contains changes and corrections to the Nortel Networks BayStack 425 10/100/1000 Switch Software Version 2.0.0 documentation.

- The `show sys-info` command has been enhanced to include the autotopology status of the device (Figure 1). If enabled, the switch will participate in autotopology, allowing network topology mapping. Autotopology is enabled by default. Refer to *Using the BayStack 425 10/100/1000 Switch* for more information about autotopology.

Figure 1 show sys-info command output

```
BS425_24>enable
BS425_24#show sys-info
Operation Mode:    Switch
MAC Address:      00-09-97-A2-9C-40
Reset Count:      0
Last Reset Type:  Power Cycle
Power Status:     Primary Power
Autotopology:     Enabled
Local GBIC Type:  (port 25) GBIC is missing
Local GBIC Type:  (port 26) GBIC is missing
sysDescr:         BayStack 425
                  HW:0B          FW:2.0.0.6    SW:v2.0.0.15
sysObjectID:      1.3.6.1.4.1.45.3.57.2
sysUpTime:        0 days, 00:35:14
sysServices:      3
sysContact:
sysName:
sysLocation:
BS425_24#
```

Adding comments to CLI scripts

To add comments to your CLI script, insert an exclamation point (!) prior to the line you are adding as a comment. If the first character on a line of input to the CLI is an exclamation point, the CLI ignores that line of input.

Restoring a lost password



Note: The following procedure changes your switch to default values. All of the switch configuration information will be lost.

To restore a lost password, do the following:

- 1 Attach a console cable to the serial port

- 2 Start your terminal emulation program
- 3 Apply power to the switch
- 4 As the switch begins to initialize, press CTRL-C on your keyboard. You should see a listing of information. For example:

```
BayStack 425 Switch Diagnostics 2.0.0
Testing main memory - PASSED
>> Break Recognized - Wait..
Resets: 142.
Initializing Flash..
Reading MAC Address..
MAC Address: 00:E0:7B:CC:78:C0
Initializing Switch CBs,....
Initializing Switch HW..
Press 'a' to run Agent code
Press 'd' to Download agent code
Press 'e' to display Errors
Press 'i' to Initialize config/log flash
Press 'p' to run POST tests..
```

- 5 Press 'i' to initialize the configuration. This erases the password and the configuration.

The following prompt is displayed:

```
Erase Config/Log Flash? y/N [ N ]:
```

- 6 Press Y

The following information is displayed:

```
Erasing - Wait 0 sec..
Press 'a' to run Agent code
Press 'd' to Download agent code
Press 'e' to display Errors
Press 'i' to Initialize config/log flash
```

Press 'p' to run POST tests..

7 Press 'a'.

Related publications

For more information about the Nortel Networks BayStack 425 10/100/1000 Switch, refer to:

- *Installing the BayStack 425 10/100/1000 Switch* (part number 215658-A)
Describes how to install the BayStack 425 Switch.
- *Getting Started with BayStack 425 Software* (part number 215663-A)
Describes how to install the Device Manager software management application.
- *Reference for the BayStack 425 Management Software* (part number 215662-A)
Describes how to use the Device Manager software management application.
- *Using the BayStack 425 10/100/1000 Switch* (part number 215661-A)
Describes how to use the BayStack 425 10/100/1000 Switch for network configuration.
- *Using Web-based Management for the BayStack 425 10/100/1000 Switch, Software Version 2.0* (part number 215660-A)
Describes how to use the Web-based management tool to configure switch features.
- *Reference for the BayStack 425 10/100/1000 Command Line Interface, Software Version 2.0* (part number 215659-A)
Describes how to use Command Line Interface (CLI) commands to configure and manage the BayStack 425 Switch.

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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.

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