# Release Notes for the Business Policy Switch 2000 Software Version 1.1.3.9

*210676-G*

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# Statement of Conditions

# Introduction

These release notes for the Nortel Networks Business Policy Switch 2000* software version 1.1.3.9 provide information about software and operational issues not included in the Business Policy Switch 2000 (BPS 2000) software version 1.0 and version 1.0.1 guides.

To obtain the software version 1.1.3.9, download the following files from the Customer Support World Wide Web site:

- bps2k113_9.img (software file)
- bps2kdiag_2008.bin (diagnostics file)

> **→** **Note:** You must upgrade using the latest diagnostics file as indicated above. The file contains new diagnostics code that is required for this release.

To obtain the Java* Device Manager (DM) software to manage the BPS 2000, download the following file from the Customer Support World Wide Web site:

- JDM 5.3.1.0

These release notes provide information on version 1.1.3.9 and cover the following topics:

- "Compatibility with BayStack 450 switches," next
- "Related publications" on page 5
- "Resolved issues" on page 7
- "Known issues" on page 8
- "Known limitations" on page 9

# Compatibility with BayStack 450 switches

The BPS 2000 software version 1.1.3.9 is compatible with BayStack* 450 software versions 4.0 and 4.1.

You can stack the BPS 2000 up to 8 units high. There are two types of stacks:

- Pure BPS 2000 —This stack has *only* BPS 2000 switches. It is sometimes referred to as a pure stack. The stack operational mode for this type of stack is Pure BPS 2000 Mode.
- Hybrid—This stack has a combination of BPS 2000 switches *and* BayStack 450 and/or BayStack 410 switches. It is sometimes referred to as a mixed stack. The stack operational mode for this type of stack is Hybrid Mode.

All BPS 2000 switches in the stack must be running the identical version of software, and all the BayStack switches must be running the identical version of software.

When you are working with a mixed stack, you *must* ensure that the Interoperability Software Version Numbers (ISVN) are identical. That is, the ISVN number for the BayStack 450 switch and BayStack 410 switch must have the same ISVN as the BPS 2000. If the ISVNs are not the same, the stack does not operate. The ISVNs and the accompanying software release are:

- ISVN 1
  - — BayStack 410 or Bay Stack 450—version 3.1
  - — BPS 2000—versions 1.0 and 1.0.1
- ISVN 2
  - — BayStack 10 or BayStack 450—versions 4.0 and 4.1
  - — BPS 2000—versions 1.1, 1.1.1, and 1.1.3.9

In sum, the stacking software compatibility requirements are as follows:

- Pure BPS 2000 stack—All units must be running the same software version.
- Pure BayStack 450 stack—All units must be running the same software version.
- Hybrid stack:
  - — All BPS 2000 units must be running the same software version.
  - — All BayStack 410 units must be running the same software version.
  - — All BayStack 450 units must be running the same software version.
  - — All software versions must have the identical ISVN.

To find out which version of the BPS 2000 software is running, use the Console Interface (CI) menus or the Web-based management system:

- CI menus—From the main menu of the Console, choose Systems Characteristics menu. The software currently running is displayed in sysDescr.
- Web-based management system—Open the System Information page, which is under Administration on the main menu. The software currently running is displayed in the sysDescription field.

Refer to Appendix B of the *Using the Business Policy Switch 2000 Software* for complete information on interoperability and compatibility between the BPS 2000 and BayStack switches.

Although the BPS 2000 software version 1.1.3.9 is compatible with BayStack 450 software versions 4.0 and 4.1, when you operate a mixed stack of BPS 2000 and BayStack 450 switches, some of the BayStack 450 software version 4.1 enhancements may not be accessible.

# Related publications

For more information about the BPS 2000 switch, refer to:

- *Release Notes for the Business Policy Switch 2000 Software version 1.1.1* (part number 210676-D)
- *Release Notes for the Business Policy Switch 2000 Software version 1.1* (part number 210676-C)
- *Release Notes for the Business Policy Switch 2000 Software version 1.0.1* (part number 210676-B)
- *Addendum to the Release Notes for the Business Policy Switch 2000* (part number 210676-A)
- *Release Notes for the Business Policy Switch 2000* (part number 209320-A)
- *Using the Business Policy Switch 2000* (part number 208700-A)
- *Using Web-Based Management for the Business Policy Switch 2000* (part number 209570-A)
- *Reference for the Business Policy Switch 2000 Management Software* (part number 209322-A)

- *Getting Started with the Business Policy Switch 2000 Management Software* (part number 209321-A)

- *Business Policy Switch 2000 Installation Instructions* (part number 209319-A)

- *Installing Media Dependent Adapters (MDAs)* (part number 302403-F)

- *Managing Policy Information in Optivity Policy Services for Business Policy Switch* (part number 306969-D)

- *Installing Optivity Policy Services for Business Policy Switch* (part number 306972-C)

- *Task Map - Installing the OPS for BPS Product Family* (part number 306976-C)

- *Release Notes for Optivity Policy Services for the Business Policy Switch Version 1.0* (part number 306975-C)

- *Known Anomalies for Optivity Policy Services for the Business Policy Switch Version 1.0* (part number 306974-C)

- *Using the Optivity Quick2Config 2.2 Client Software* (part number 207810-B)

- *Installing and Administering Optivity Quick2Config 2.2* (part number 207809-B)

- *Configuring Business Policy Switches with Optivity Quick2Config 2.2* (part number 311208-A)

- *Release Notes for Optivity Quick2Config for Business Policy Switch 2000, v.2.2.1* (part number 310621-A)

You can print selected technical manuals and release notes free, directly from the Internet. Go to the 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 Systems at the www.adobe.com URL to download a free copy of the Adobe Acrobat Reader.

# Resolved issues

The following issues were resolved in version 1.1.3.9:

- You can now set QoS policies while running OPS on NT servers.
- Telnet, SNMP and Web services are no longer lost when the SNMP process is heavily utilized. (Q00152439)
- The stack integrity remains intact through rapid port status changes in a stack of BPS2000s. (Q00168873)
- When using Web management on a stack of BPS 2000 switches and accessing the Port Error Summary page, if the page contains more than six entries, the web access could crash and hang the system. Access to the page has been disabled in this release and a blank page now appears. (Q00170933)
- When upgrading to newer (larger) image files, the operation no longer fails.
- General stack robustness has improved when units are forming a new stack or joining an existing stack.

The following issues were resolved in version 1.1.0:

- You can download BayStack* 410 and BayStack 450 software images (and diagnostics) using the Device Manager in a mixed stack environment with Business Policy Switches.

  Using DM with a mixed stack and you choose Edit > File System, you can specify either the image for the BPS 2000 or the image for the BayStack, or both to download the software image(s).
- The BootP timeout for the BPS is now set to five minutes, which matches the BootP timeout value for the BayStack 450 switch. (CR 13161-1)
- BootP values set to either Always or When Needed are retained during a switch reset. (CR 126842-1)

The following issue was resolved in version 1.0.1:

- The ports on the BPS2000-4 TX MDA now autonegotiate correctly to 100 Mb/s full-duplex when they are connected to another BPS2000 port configured to autonegotiate.

# Known issues

The following paragraphs discuss the known issues with the BPS 2000.

The following issues are known to exist in version 1.1.3.9 of the BPS 2000 software:

- When using Web management on a stack of BPS 2000 switches and accessing the Port Error Summary page, if the page contains more than six entries, the web access could crash and hang the system. Access to the page has been disabled in this release and a blank page now appears. (Q00170933)

- The Multicast Group Membership table may display duplicate entries when the switch is in Distributed MultiLink Trunking (D-MLT) mode. However, the trunks function properly; this is a display problem only. (CR 138095-1)

- The pre-defined Usernames for the login page of the Web-based management system are **uppercase** letters: RO or RW. (The documentation erroneously shows these user names as lower-case letters.) (CR 145225-1)

- In a BPS 2000-only stack, the entire stack is reset to default values when you return the base unit to default values. (CR 145501-1)

- To disable a port that is part of a MultiLink Truck (MLT) group, use either Java Device Manager (JDM) or the Console Interface (CI) management system menus (you can use the Telnet connection). With the Web-based management system, you may be unable to disable ports that are part of MLTs. (CR 146607-1)

- When the High Speed Flow Control Autonegotiation feature is set to enabled (the default), the port only advertises support for 1000 Mb/s operation, in full-duplex mode. If you experience problems between the Business Policy Switch and other network devices, set Autonegotiation to *disabled* on both sides of the link.

- Gigabit MDA
  — Far End Fault Indication (FEFI) is not supported in this release.
  — When viewing Active Phy information from the console interface, the console must be connected to the unit containing the Gigabit MDA (the BayStack 450-1SR MDA and the BayStack 450-1LLR MDA) to display the appropriate Phy information. Incorrect information may be displayed if you connect to a unit not containing a Gigabit MDA.

— When you remove a Gigabit MDA from a switch, the Active Phy of the effected unit displays the new status. However, occasionally, the Active Phys of the other units in the stack or remote units will not display the new status.

# Known limitations

The following limitations are known to exist

- The current usable filters with software version 1.1.3.9 for the BPS are:
  — 50 policies
  — 200 IP filters and filter groups
  — 24 IP filters with same Source Address (18 nested subnets)
  — 14 Layer 2 filters and filter groups
  — 50 meters
  — 50 actions
  — Metered data consumes 2 filters
- Mixed stacks (hybrid stacks)—In order to upgrade BayStack 410 and BayStack 450 software in a hybrid stack, the stack must be fully redundant. All cables in the stack must be installed and operating properly. If the cables are not installed properly, the BayStack units will fail to upgrade. A message is displayed on consoles connected to BayStack 410 and BayStack 450 switches: `Primload Error - 2009 Switch will reset in 5 seconds...`
- You can configure as many as 63 protocol-based VLANs, with a sum total of "N" PID values not to exceed 15 (Table 1).

**Table 1**  Protocol and PID values

| Protocol Name | Number of PID values (N) |
|---|---|
| Ip Ether2 | 2 |
| Ipx 802.3 | 1 |
| Ipx 802.2 | 1 |
| Ipx Snap | 2 |
| Ipx Ether2Snap | 2 |

**Table 1**   Protocol and PID values (continued)

| Protocol Name | Number of PID values (N) |
|---|---|
| AplTk Ether2Snap | 2 |
| Declat Ether2 | 1 |
| DecOther Ether 2 | 10 |
| Sna 802.2 | 2 |
| Sna Ether2 | 1 |
| NetBios 802.2 | 2 |
| Xns Ether2 | 2 |
| Vines Ether2 | 1 |
| Ipv6 Ether2 | 1 |
| Usrdef | 1 |
| Rarp Ether2 | 1 |

For more information on Predefined Protocol Identifiers (PIDs), hexadecimal values, and associated protocols, refer to *Using the Business Policy Switch 2000*.