

Software Release V3.0.0

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Santa Clara, CA 95054

Release Notes for the BayStack 350 Series 10/100 Autosense Switch

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Introduction

These release notes contain important information about software version V3.0 for the BayStack™ 350 Series 10/100 Autosense switch that may not be included in the related user guide (*Using the BayStack 350 Series 10/100 Autosense Switch*, Part number 893-00992-E).

The information in these release notes supersedes the applicable information in the user guide.



Note: These release notes and software version V3.0 apply *only to the four* BayStack 350 Series 10/100 Autosense switch versions: the Model 350-FHD, the Model 350-F, the Model 350THD, and the Model 350T. Do not install software version V3.0 on the BayStack 350-24T and the BayStack 350-12T model switches.

These release notes contain the following sections:

- “Upgrading the BayStack 350 Firmware” (page 2)
- “Accessing the Firmware Image and OIT Package” (page 2)
- “Nortel Networks Online Documentation” (page 3)
- “New Features of Software Release V3.0” (page 3)
- “Bug Fixes” (page 4)
- “Restrictions” (page 4)
- “Known Problems” (page 5)
- “Network Management Software Support” (page 6)
- “Correction to User Guide” (page 6)

Upgrading the BayStack 350 Firmware

The BayStack 350 switch firmware provides a code load facility that allows you to upgrade the firmware image over any switch port.

To upgrade the BayStack 350 switch to software version V3.0:

1. **Access the firmware image** (see “Accessing the Firmware Image and OIT Package” following this section).
2. **Download the agent image.**
3. **After upgrading your units, verify the firmware and software versions in the sysDescr field of the System Characteristics screen.**

The firmware version should be **FW:V1.01** and the software version should be **SW:V3.0.0**.

During the load process, the ports are configured as follows:

- Twisted-pair ports: autonegotiation enabled
- Fiber optic ports: 100 Mb/s, half-duplex

For detailed information about using the new software version V3.0 features, see *Using the BayStack 350 Series 10/100 Autosense Switch* (Part number 893-00992-E). See “Nortel Networks Online Documentation” on page 3 to get the latest version of the user guide.

Accessing the Firmware Image and OIT Package

You can access the firmware image files directly from the Internet:

1. **Go to *support.baynetworks.com/software*.**
2. **Under the BayStack Workgroup Products heading, select BayStack_350x, then click the Go button.**
3. **Under the Operational Software heading, click on BayStack 350 Autosense Switch 3.0.0.**

Follow the prompts to download the BayStack 350 agent image. The agent image file name is *b350_300.img*.

Nortel Networks Online Documentation

To be sure you have the latest updates to your product documentation, including these release notes, visit the Nortel Networks Web site at the following location:

support.baynetworks.com/library/tpubs/

Find the product for which you need documentation. Then locate the specific category and model or version for your hardware or software product. Using Adobe Acrobat Reader, you can open the manuals and release notes, search for the sections you need, and print them on most standard printers. You can download Acrobat Reader free from the Adobe Systems Web site, www.adobe.com.

You can purchase selected documentation sets, CDs, and technical publications through the collateral catalog. The catalog is located on the World Wide Web at support.baynetworks.com/catalog.html and is divided into sections arranged alphabetically:

- The “CD ROMs” section lists available CDs.
- The “Guides/Books” section lists books on technical topics.
- The “Technical Manuals” section lists available printed documentation sets.

New Features of Software Release V3.0

Software release V3.0 provides the following new features:

- MAC address-based security
- Support for AutoTopology
- RADIUS authentication and access control
- Updated backdoor password mechanism
- Support for uploading and downloading configuration files
- Forwarding of BPDUs when spanning tree is disabled
- Link up/down traps on a per port basis
- Enhanced support for Optivity

Bug Fixes

The following problems have been corrected with software release V3.0:

- You can receive two link-up traps within the specified 60-second timer interval.
- You can change the VLAN method access for a single MultiLink Trunk port member, without affecting other trunk members.
- You can set a MultiLink Trunk port member to Fast Learning mode.
- When you configure a MultiLink Trunk port member for rate-limiting, all trunk member ports implement rate-limiting.
- You can implement port mirroring on (any Address -> Address A) mode for broadcast, multicast, and unknown DA packets.
- You can implement port mirroring on (<-> Address A) mode when broadcast & multicast are applied.
- You can implement port mirroring on (Address A <-> Address B) mode for broadcast & multicast packets.
- You can implement port mirroring on (Address A-> Address B) mode with broadcast, multicast, and unicast packets.
- You can use [Ctrl]-W to refresh the MAC Address Table window.

Restrictions

- SNMP traps are not issued on login authentication failures.
- In the MAC Address Security Configuration screen, the learning process begins approximately 20 seconds after the Current Learning Mode value (Learning in Progress) is initiated, and ends approximately 20 seconds after the last MAC address is learned by the switch.
- When you add entries to the MAC Address Security Table screen, the entries are learned by the switch within approximately 5 seconds.
- When you change the AllowedSource Port (s) field value in the MAC Address Security Table screen, the network traffic associated with the specified MAC address is momentarily interrupted.

- If you download a configuration file from a switch (for example, a 16-port BayStack 350T switch) to another switch that has a greater number of ports (for example, a 24-port BayStack 350 T-HD switch), the configuration values for the additional ports will be changed to factory default values.
- The following restriction affects only BayStack 350 switches that are factory equipped with firmware version V1.00 of the code load facility (you can verify your software and firmware version in the sysDescr field of the System Characteristics screen):

Attempting a software download through certain switches running spanning tree causes the code load facility to time out within 10 seconds. This failure is indicated by the 100 Mb/s port status LEDs for ports 10 and 12 (Model 350F) and ports 14 and 16 (Model 350T), which blink once each second.

Temporarily disabling spanning tree on the switch that is logically upstream from the BayStack 350 switch allows the software download to proceed without difficulty. The spanning tree on the upstream switch can be reenabled immediately after the BayStack 350 switch software download is complete.

Firmware version V1.01 of the code load facility solves this problem (the code load facility is installed at the factory and cannot be upgraded).

Known Problems

The following problems are known to exist in software version V3.0:

- Ports that are set to operate at 100 Mb/s on 350T-HD units change to 10 Mb/s operation after new code is downloaded.
- When the 350T-HD 100 Mb/s switch ports are management disabled, the yellow (10 Mb/s) LED blinks, which indicates that the corresponding port is management disabled.
- The RFC 1493 MIB object dot1dTpLearnedEntryDiscards is not supported.
- A link state cannot be established when a cable that is 100 percent utilized is plugged into a BayStack 350 switch port. As soon as a break in the traffic occurs, the link state is established.

- RMON Alarms and Events entries are *not* saved to nonvolatile random access memory (NVRAM). When a reset condition or power-down sequence occurs, the entries are not preserved. This conforms to the current RFC 1757 standard. All RMON Alarms and Events must be reentered.

The RMON Event Log table's secondary index is not incremented when all of the table's entries have been used. In this case, the existing indexes are reused. Thus, the index number cannot be used to indicate the total number of log entries received.

- The Port Mirroring feature does not correctly mirror flooded frames when in "any Address -> Address A" or "<-> Address A" monitoring mode.

Network Management Software Support

Network management software support for the BayStack 350 10/100 Autosense switches is provided by Optivity Infocenter V9.0 with the V9.0.0.2 patch and the appropriate Optivity Integration Toolkit (OIT).

See "Accessing the Firmware Image and OIT Package" on page 2 for information on where to get the latest OIT package.

Correction to User Guide

The following information is not documented in *Using the BayStack 350 Series 10/100 Autosense Switch* (Part number 893-00992-E):

Agent Participation in VLAN V1

You can now restrict management connectivity in a multi-VLAN configuration by assigning the switch agent to a single VLAN (VLAN V1 only):

1. **Choose Switch Configuration (or press w) from the BayStack Model 350 Main Menu.**

The Switch Configuration Menu screen opens.

2. **Choose VLAN Configuration (or press v) from the Switch Configuration Menu screen.**

The VLAN Configuration screen opens.

The first row of the Port field is labeled Agent:

- To set the agent to participate in ports which are *only* in VLAN V1, Select [] (blank field = Disabled) in this row, under the V1 column. This setting is indicated by an X displayed in the entire V1 column.
- To set the agent to participate in every VLAN (V1 to V8), select X (X = Enabled) in this row, under the V1 column. This setting is indicated by an X across the entire Agent row.

