Release Notes for the BayStack 250 Series Ethernet Hubs

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Introduction

These release notes contain information not included in the *Installation and Reference for the BayStack 250 Series Ethernet Hubs* and information regarding changes and enhancements that are the result of the release of software agent version 3.1.0. For background information on topics that are covered in these release notes, refer to *Installation and Reference for the BayStack 250 Series Ethernet Hubs* (see "Related Publications" on page 10).

These release notes include the following topics:

LED Descriptions

This section explains the meanings of some of the front panel LEDs in more detail than given in the installation and reference guide.

Network Utilization LED Description

The BayStack™ 250 Series hub front panel LED display has two banks of LEDs to indicate the percentage of network utilization. One bank of LEDs (labeled 10M Utilization%) indicates traffic at 10 Mb/s; the second bank (labeled 100M Utilization%) indicates traffic at 100 Mb/s (Figure 1).

Any traffic that is detected is indicated by the 1% LED, even if the traffic is less than 1 percent. The LEDs light in sequence as traffic increases. If a percentage of traffic is greater than the LED available on the panel, but less than the next available LED, only the lower numbered LED turns on. For example, if the percentage of traffic is 4 percent, the 1% and 3% LEDs turn on. If the percentage of traffic is 30 percent, the 1%, 3%, 5%, 10%, and 20% LEDs turn on. For more information about the LED display, refer to Chapter 3, “Installation,” in *Installation and Reference for the BayStack 250 Series Hubs*.

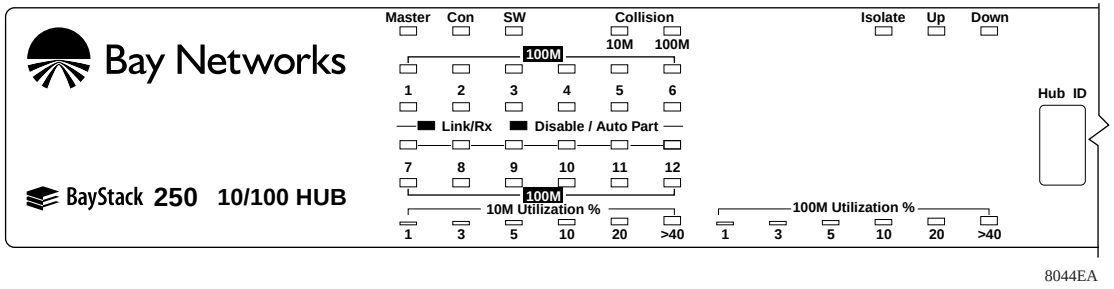

Figure 1. Front Panel LED Display

Autopartition/Disable LED Description

The port status LEDs (Link/Rx and Disable/Autopartition) on the front panel display are bicolor LEDs. When an LED indicates that the port is disabled or is autopartitioned, the LED is amber. Table 3-2, "Description of Hub and Port Status LEDs," on page 3-10 of the manual is incorrect; Table 1 below shows the correct explanations for the port status LEDs. For more information about the LED display, refer to Chapter 3, "Installation," in *Installation and Reference for the BayStack 250 Series Hubs*.

Table 1. Port Status LEDs

Label	Color	Activity	Description
Link/Rx (port numbers 1 through 12 or 24)	Green	On	The port is connected to a port on an Ethernet device that is powered on, and the connection between the ports is valid.
100M (port numbers 1 through 12 or 24)	Green	Blinking	The port is receiving data.
Disable/ Autopartition	Amber	On	The port has been manually partitioned or is the "standby" port in a redundant pair.
	Amber	Slow Blink	The port is in a redundant pair, but it has no link.
	Amber	Fast Blink	The port has been automatically partitioned.

Note: "Fast blinking" occurs at approximately 0.5 seconds between blinks and "slow blinking" is approximately 1.5 seconds between blinks.

On the 10 Mb/s autopartitioned ports, if the link is lost (for example, if the cable is removed), the LINK LEDs continue flashing; On the 100 Mb/s autopartitioned ports, the LINK LEDs turn off when the link is lost.

Web Browser Recommendation

Bay Networks recommends that you use a Netscape Web browser version 3.0.1 or newer or a Microsoft® Internet Explorer Web browser version 4.0 or newer to access the Bay Networks® Web management pages.

Security Access Options

The Runtime System Configuration Menu has the five security access options described in Table 2.

Table 2. Runtime System Configuration Menu (Security Access) Commands

Command	Function
u	**[Set user access password]** Use this command to set a password for user-level access to the configuration menus. This command prompts you to enter a password of up to 32 characters.
o	**[Set operator access password]** Use this command to set a password for operator-level access to the configuration menus. This command prompts you to enter a password of up to 32 characters.
m	**[Set manager access password]** Use this command to set a password for manager-level access to the configuration menus. This command prompts you to enter a password of up to 32 characters.
p	**[Set read-only access password]** Use this command to set a password for read-only access to the configuration menus. This command prompts you to enter a password of up to 32 characters.
w	**[Set read-write access password]** Use this command to set a password for read-write access to the configuration menus. This command prompts you to enter a password of up to 32 characters.
[Esc]	**[Return to previous menu]** Use this command to return to the run-time Main Menu.

To set a password for access to the configuration menus:

1. **Press the letter of the command you want.**

   A prompt asks you for a password.

2. **Type the password you want and press [Enter].**

   Asterisks appear as you type. When you press [Enter], the following message is displayed on the menu:

   ```
   ***Modified value has not been written to EEPROM***
   ```

3. **Press [Esc].**

   The Main Menu opens.

4. **Press w to save the password to EEPROM.**

Configuration Sessions

The following issues relate to the Telnet Protocol and Telnet access or communications port access to the hub.

Simultaneous Sessions

You cannot run a Telnet session to configure the hub and access the configuration menus through the hub communications (Comm) port at the same time.

Session Timeout

A Telnet session or communications port session on the hub will time out if no activity occurs within 5 minutes. The copyright banner is displayed when the timeout occurs.

Hub ID Display on Reset

When you reset a hub stack, all the hub ID displays indicate 0. It takes about 15 to 20 seconds for the hub ID displays to indicate the appropriate ID numbers at the end of the boot process, after the agent is loaded into dynamic random access memory (DRAM).

Redundant NMM Backup Management

When a BayStack 250 or 253 hub that is functioning as the active "master" hub in the stack is disabled, the standby managed hub (BayStack 250 or 253) takes over and the following changes or losses occur:

- Any timed-partitioned ports are changed to partitioned ports.

  When the standby managed hub takes over before the time is cleared on timed-partitioned ports, all timed-partitioned ports are changed to partitioned ports. To change the partitioned ports, go to the run-time Main Menu, press o to display the Port Selection Menu, enter the port numbers that you want to change, and then press u to unpartition those ports. For more information about the menus and commands, refer to Chapter 5, "Using the Configuration Menus," in *Installation and Reference for the BayStack 250 Series Ethernet Hubs.*

- RMON statistics are lost.
- The Trap Receiver Table of the active “master” hub is lost, and the Trap Receiver Table of the standby managed hub takes control.

  The Trap Receiver Table is accessed by pressing n from the run-time Main Menu to toggle the authentication traps feature on and off or by pressing t to set the Trap Receiver Table. For more information about the menus and commands, refer to Chapter 5, “Using the Configuration Menus,” in *Installation and Reference for the BayStack 250 Series Ethernet Hubs.*
- Redundant Link ports maintain their port configuration (active - normal, standby - partitioned), but the relevant management information base (MIB) objects that would be used by Optivity® network management software are lost.

Redundant NMM Replacement

If the master hub is removed for any reason, the backup network management module (NMM) will maintain the configuration of the removed master hub.

If a new NMM is going to be introduced to the stack and you want to keep your current configuration, you *must* follow these steps:

1. **Power down the stack.**
2. **Place the backup NMM at the top of the stack.**
3. **Add a replacement hub to stack location unit two.**
4. **Make sure the cascade cables are properly attached.**
5. **Power up the stack.**

Note: If you do not follow these steps, your configuration stored on the backup NMM will not be used.

Port-Level Security

The packet jamming function associated with the Eavesdrop Protection feature does not support duplicated ports with “authorized addresses.” One or more of the duplicated ports will function as “unsecured” ports if you configure the ports in this manner.

The hardware Intrusion Control feature is not supported by the version 3.0.0 agent. Intrusion control can be performed through the agent-based “allowed nodes” security feature.

Saving Parameter Changes

After using Optivity or a MIB browser to make parameter changes to the agent, be sure to save the changes to the nonvolatile random access memory (NVRAM) on the NMM. If you do not save the changes, they will be lost when you cycle the power or reset the NMM. You can save changes by selecting the “w” (write) option from the agent run-time Main Menu that you access through the console or through a Telnet session. For more information about the menus and commands, refer to *Installation and Reference for the BayStack 250 Series Ethernet Hubs.*

New Features

Three new folders have been added to the Web Management feature of the BayStack 250 Series Ethernet Hubs with the release of software agent version 3.1.0. The folders are Fault, Statistics, and Application. The new folders and their contents are described here.

- Fault

—Port Management

Allows the user to monitor the port status, which can be on, off, or jabber. The port can also be enabled or partitioned using the Port Management feature.

—Threshold

Allows the user to set thresholds for the following parameters: GoodOctets, GoodFrms, BcastFrms, McastFrms, AlignErrors, FcsErrors, Runts, TooLongFrms, Fragments, VeryLongEvents, Colls, LateColls, ShortEvents, BackoffFailures, ShortIPGs, and NullFrames.

—Event Logs

Provides a summary of events that have occurred including time stamp, description, triggering mechanism, and ID.

—Discovery

Allows the user to ping a particular MAC or IP address and report results

- Statistics

—Traffic

Provides details about activity on a per-port basis for a particular device. The summary of traffic statistics includes Item, Collisions, Bytes, Frames, Broadcasts, Multicasts, and Errors.

—Error Statistics

Summarizes statistics for 10 types of errors.

- Application

—Topology

Provides per-port information about the device to which it is connected including Seg, LSA, IP addresses, device type, and Telnet and ping information.

Bug Fixes

The following bugs are fixed in the agent version 3.1.0 software for the BayStack 250 Series Ethernet Hubs.

- The Web-based management interface has been changed under the “Configuration:Stack” menu. The description of the units comprising the stack now displays the exact model number.
- When selecting “Display Port Status,” the ports will display “A” if configured for autonegotiation and no link is present. If configured for autonegotiation and a link is present, it will display either “100A” or “10A” depending on the link speed negotiated at Fast Ethernet and Ethernet, respectively.

Known Problem

A compatibility problem has been detected with the Net Flex-3 network interface card (NIC). This NIC cannot autonegotiate with the Baystack 250 Series hubs. If you experience problems of this nature, contact your reseller to obtain a new driver for your NIC.

Software Download Procedure

The following procedure assumes that the BayStack 250 Series hub has a configured IP address and that a properly congfigured TFTP server resides on the network.

1. **From the main menu, select b- for the Boot configuration menu.**
2. **Select i- for the Toggle image load mode until value is set to net.**
3. **Press [esc] to return to the main menu.**
4. **Select d- for the Boot file configuration menu.**
5. **Enter the values for the following parameters: Boot Server (TFTP server) Boot Router (or default gateway), Image file (include full path).**
6. **Press [esc] to return to the main menu.**
7. **Select w- to Save values to EEPROM.**
8. **Select z- to Reset management module.**

   At this point you will be prompted to proceed with the download. If you select "y", the hub will reset and proceed with the download.

Note: The BayStack 253 hub is intended to use image version 3.1.0 or higher. Any attempt to download an earlier version will not be permitted.

Related Publications

For more information about using the BayStack 250 Series Ethernet Hubs, refer to the following documentation:

- *Installation and Reference for the BayStack 250 Series Ethernet Hubs* (Bay Networks part number 893-01064-B)
- BayStack 250 Series Ethernet Hubs Installation Instructions (Bay Networks part number 893-01065-B)

  These instructions are translated into five languages.
- *Installation Instructions for the Model 25F Fiber MDA* (Bay Networks part number 204424-A)

How to Get Help

For product assistance, support contracts, or information about educational services, go to the following URL:

http://www.baynetworks.com/corporate/contacts/

Or telephone the Bay Networks Technical Solutions Center at:

800-2LANWAN