

## Release Notes: MNS-BB Release 1.5 (12/03/07)

### Software (general)

The MNS-BB software is modular software. The software modules (or applications) are segmented according to the type of functionality they provide. Each module has specific tasks to provide and clearly defined interfaces with other modules based on the overall system/functional requirements.

### Download Location

The LE2425A / LEV2525A/ LE2325A **MNS-BB Release 1.5** is available on the Black Box FTP site.

FTP Site: <ftp://ftp.bbfihs.com> or <ftp.bbfihs.com>

Username: blackbox

Password: le25a

Path: /MNS-BB

Filename: LE\_Rel1.5.bin

### New Modules and Features in 1.5 (Since Release 1.4)

- **New Hardware Support**  
New Model **LE2325A** with supporting Modules  
New PoE Modules, New Gigabit modules with 10/100/1000 auto-negotiation
- **New Features** (Please see Exhibit **A** for details)
- **CLI Enhancements** (Please see Exhibit **B** for details)
- **Web Enhancements** (Please see Exhibit **C** for details, below)

### Bug Fixes

- The SWM previously would not update the VLAN status in the tagged column - Fixed
- <TAB> key hangs the CLI – Fixed
- PING request was very slow from Telnet session - Fixed.
- Trap and Event Filter in SMTP/SWM is Fixed.
- Clear log hangs up the command processor sometimes – Fixed
- Write community is not readable from a switch through operator mode anymore in SWM.
- Cannot set Action NONE in Port Security if we have missing Fiber ports. – Fixed
- If ports are tagged, 'show vlan type=tag' shows ports as untagged – Fixed.
- Port-mirror, Tag Vlan, IGMP and TACACS issues with scripts have been Fixed.
- Day Saving Time Change 2007, fix (**Applicable to North America only**).
- RSTP---value of edge, p2p does not retain across reboot - fixed
- GVRP---'set-ports' command accepts nonexistent and missing ports - fixed
- QoS—High and Low queue value goes to default in the presence of broadcast - fixed
- Port-Mirroring, SWM Edit screen – Monitor / sniffer port drop-down list was showing duplicate and missing ports on the switch - Fixed
- IGMP Querier was held at 'enable' after reboot, even if user 'disable' it – Fixed

**Note:** For more details on commands and new features, please refer the User Guide. User Guides are available under /User\_Guide folder on FTP.

## Exhibit A

### ➤ **LACP (Link Aggregation Control Protocol) (IEEE Std 802.3ad)**

Link Aggregation, also known as “Port Trunking,” is a method of combining physical network links into a single logical link. Link Aggregation can increase the capacity and availability of physical media links between devices, and may be useful with high-risk links such as wireless interconnects.

### ➤ **Passive FTP**

MNS-BB supports Passive Mode of FTP now, in addition to Active (Normal) FTP Mode as previously. Improved ftp security can be obtained by using the Passive Mode.

### ➤ **TACACS+ Enhancements**

User can now set the authentication order (Local to TACACS Server, or TACACS Server to Local) and user levels.

#### CLI Commands

```
tacplus order=<tac,local/local,tac> [Default order is Local to TACACS Server]  
tacserver <add/delete> id=<num> [ip=<ip-addr>] [port=<tcp-port>]  
[encrypt=<enable/disable>] [key=<string>] [mgrlevel=<level>] [oprlevel=<level>]
```

### ➤ **Dual-Homing**

MNS-BB supports Dual-Homing as a new feature, with a user-selectable port-pair of any media type on a Managed LE switches, and with a choice of failover-to-backup or primary-secondary modes. The mode is user-selectable.

#### CLI Commands

```
dualhome <enable/disable>  
dualhome add port1=<port> port2=<port> (this is for failover-to-backup mode)  
OR dualhome add primary=<port> secondary=<port> (this is for primary-secondary mode)  
dualhome del
```

### ➤ **IPv6**

MNS-BB supports IPv6 stacks along with IPv4 stacks (Dual Stacks). Managed LE Switches are compatible with IPv6 TCP/IP (Ping, ICMP, Telnet, FTP and SNMP) protocols now.

#### CLI commands

```
ipconfig [ip=<ipaddress>] [mask=<subnet-mask>] [dgw=<gateway>]  
show ipv6  
show ipconfig
```

## **Exhibit B**

### ➤ **Event Log**

Event Log entries are now categorized in 8 categories for more clarity and debugging. (It had 5 categories before). SWM screens and icons also updated.

#### CLI command

*show log [fatal/alert/crit/error/warn/note/info/debug]*

### ➤ **Improved Configuration**

MNS-BB has improved and enhanced script based configuration for easier configuration Management.

- **Save Options:** User can save the configuration in old and new format.

*Syntax: save [format=v2|v3]*

**Note:** You must save as v3 format to use improved CLI Script capability. By default, the SAVE command saves the configuration in new (v3) format.

### ➤ **New VLAN CLI Command option**

User will have option to move Management control on any VLAN now. (VLAN1 had a special management role before, now it can be any VLAN for management). In addition, user can now enable and disable the management on any VLAN. By default, management continues to be available on all VLANs.

#### CLI Commands

*Add id=<vlan Id> [name=<vlan name>] port=<number/list/range>  
[forbid=<number/list/range>] [<mgt/nomgt>]*

*edit id=<vlan Id> [name=<vlan name>] port=<number/list/range> [<mgt/nomgt>]*

### ➤ **Option to see Serial Number and Original Factory Configuration Code**

User will have option to see the 'Serial number' and 'Original Factory Configuration Code' through CLI, Telnet and SWM. The 'Original factory configuration code' field may not always be factory loaded, and may be blank. It has no operational affect.

Both 'Serial number' and 'Original Factory Configuration Code' are factory set, and cannot be changed in the field. User can see them through 'show setup' command. It is anticipated that these will become useful support tools.

#### CLI Command

*Show setup*

### ➤ **CLI Script Enhancement**

CLI Script has the MNS-BB Release Number (such as 1.5) and the description of slots/modules added. User can see them through 'show config' command as well.

## **Exhibit C**

- **Secure Web Management (SWM) Enhancements**
  - **New improved Tag VLAN Filter Screen**

New improved (easy to use) Tag VLAN Filter Screen added.  
Check boxes are added as an ease-of-use enhancement to save the exclusive parameter.
  - **IPv6 SWM Screen**

MNS-BB also has option to configure IPv6 addresses through SWM.
  - **Save Message Window**

Before Logout SAVE Message Window pops up to ask to SAVE the configuration for confirmation.
  - **Kill Config (Restore Defaults) Screen**

User has option to restore the default values through SWM now