

turboIP 2.6 Release

Approval Signatures			
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Applicability
Upgrade Version 2.6 Release (fw10452B) for turboIP units. This release includes an upgrade file for turboIP 1.0, an upgrade file for turboIP 2.5.5.3, and two SNMP private MIB files.

Revision History			
Rev #	Description	Date	Prepared by
-	Version 1.0	Sept. 5, 2003	N/A
A	Version 2.5.5.3	Jan. 6, 2004	Peter Heck
B	Version 2.6	Jan. 20, 2004	Peter Heck

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Introduction

The turboIP 2.6 Release is an upgrade release for turboIP 1.0 and turboIP 2.5.5.3. It is **recommended** that all field-installed turboIP systems be upgraded to this version of software. This release includes two upgrade files for turboIP, one for version 1.0 and the other for version 2.5.5.3. This release also includes private turboIP MIB files for the SNMP interface, which is available in the 2.6 Release.

Features

New features in turboIP 2.6 and 2.5.5.3 when upgrading from turboIP 1.0:

- A SNMP interface has been added in the 2.6 Release. This release includes support for MIB2, a product-specific (private) MIB, and notifications for critical process monitoring.
- More console screens have been added in the 2.6 Release to provide additional configuration and administration capabilities.
- The Web interface has been modified to add support for SNMP configuration.
- By default, the 2.6 Release has easyConnect turned ON.
- A common user name and password has been added for logging into the console and web interfaces.
- The options field and type of service (TOS) field in the IP header are no longer discarded. These IP header fields are now transparently passed through the turboIP.

New features in turboIP 2.6 when upgrading from turboIP 2.5.5.3 or 1.0:

- The 2.6 release implements Fail to Wire (FTW) functionality, if a FTW board is installed in the turboIP. This feature allows traffic to pass if the turboIP were to fail or be shutdown. The turboIP's Unit ID on the Upgrade Page has been appended by a four alphanumeric code to show the existence and state of the FTW board. These values are:
 - 00FF: No FTW board present
 - FWFD: FTW board present and is in normal mode
 - FWFC: FTW board present and is in "wire" modeIf the FTW board is not installed in the turboIP system, the V2.6 Release will function normally, except this feature will be unavailable.
- The Maximum Transfer Unit (MTU) on the WAN interface can be configured by the user using the CLI or HTTP. This feature allows better interoperability with other IP devices requiring packets with a length less than 1500 bytes.

Defect fixes in turboIP 2.6 when upgrading from turboIP 1.0:

- The largest value for WAN maximum round trip time was changed from 60,000 ms to 3,000 ms in both the Web and console interfaces.

Software Release Notification

- The LAN Round Trip Time has been removed for all interfaces. This parameter is no longer used.
- It is no longer required to reboot the turboIP for routes and other system parameters to take affect. The only two parameters that still require a reboot are turning easyConnect ON and OFF and turning TCP acceleration ON and OFF.
- Improved route error checking has been added to the console and web route tables.
- Leading zeroes in IP Addresses no longer denote the values as octal. All IP addresses are interpreted as decimal values.
- The version number is now displayed in the Web interface on the Upgrade page.

Defect fixes in turboIP 2.6 when upgrading from turboIP 2.5.5.3:

- The turboIP no longer turns easyConnect OFF when pressing ESC on the Configure Interfaces page in the CLI.
- The turboIP no longer sends erroneous traps when SNMP is turned ON via the CLI.
- The CLI interface indicates whether a change to the password or user name completed successfully or unsuccessfully.
- The prompts in CLI have changed to indicate that pressing Q is necessary to activate any changes made on the page.
- The CLI Upgrade Page indicates that a "File" (including it's Path) should be entered to upgrade the turboIP.

Backward Compatibility

A turboIP unit running V2.6 is compatible with turboIP units running V1.0 and V2.5.5.3. However, to avoid performance degradation and future compatibility issues, a network-wide upgrade of all units to V2.6 should be performed.

Known Issues

Issue: When a “SHUTDOWN turboIP” is performed via the Web interface, the browser will be redirected back to the login screen after 45 seconds. If the turboIP unit remains powered off, the browser will display a “Page cannot be displayed” or “File not Found” error.

Workaround: The redirect command is issued to the browser so that if a user hits the browser’s refresh button after the turboIP unit powered up again, the shutdown command will not be resent thus shutting down the unit again.

Issue: The SNMP interface and turboIP private MIB provide “view only” access to system configuration parameters. System configuration parameters have been defined as

read-only and cannot be modified via SNMP. Trying to SET these elements returns a "Not writable" message to the SNMP Manager.

Workaround: The console and Web interfaces provide the ability to change all turboIP parameters.

Issue: The ifSpeed in the MIB2 ifTable will report 100 Mbps for both interfaces regardless of the actual interface speed.

Workaround: None

Issue: The ability to add or change routes in the route table by way of the MIB2 ipRouteTable has been disabled. Sets to the ipRouteTable will not work.

Workaround: Use the console or Web interface's route table to enter new routes or delete existing routes.

Issue: The turboIP does not to activate changes immediately on the CLI to avoid multiple restarts of processes and to better mirror the functionality of the HTTP interface.

Workaround: On the CLI's Acceleration, Interface, and SNMP pages, a user's changes are not activated until hitting the Q key to return to the Main Menu.

Issue: Due to access privileges associated with the V1.0 CLI, upgrading from V1.0 must be performed via the HTTP interface.

Workaround: The turboIP V1.0 must be upgraded using the HTTP interface. Upgrades from V2.5.5.3 and later, do not have this restriction and can be done via both the CLI and HTTP interfaces.

Issue: Two upgrade files have been generated for the V2.6 release. The differences in the upgrade files relate to the original upgrade encryption passwords installed on the image.

Workaround: The upgrade files and the versions that they will upgrade are as follows:
fw10452B_From10_Upgrade.zip: to upgrade from v1.00
fw10452B_From2553_Upgradezip: to upgrade from v2.5.5.3

Issue: The upgrade must be performed via a FTP Server locally attached to the turboIP LAN network interface. Trying to upgrade the turboIP from a FTP server over the WAN link will create a failure in the upgrade script.

Workaround: All upgrades should use a FTP Server on the LAN side. If the upgrade is accidentally performed over the WAN interface, the upgrade should be performed again using the LAN interface and the same upgrade file. The exception however, is when a remote upgrade from V1.0 to V2.6 fails but has been partially completed, the user may need to use the "V2.5.5.3 to V2.6" upgrade file.