10Mb ConnectUPS SNMP/WEB Card Firmware Enhancement History

Applies only to part numbers IPK-0329 and IPK-0330

Version 1.46 (November 2005)

- A problem was fixed whereby the card would fail to continue polling the UPS after extremely long periods of continuous operation. An occasional restart of the cards with older firmware (e.g., annually) will prevent the problem from arising.
- DHCP functionality has been enhanced to work correctly during short lease times, as well as to quit responding to the previously assigned IP address when a different one is assigned at the time of the renewal.

Version 1.42 (March 2005)

- The Email Notification page has been enhanced to now allow email addresses to be entered up to a maximum of 63 characters in length. Previously, only the serial/Telnet menu supported the longer email addresses.
- SMTP-based Email Notification configuration has been enhanced to allow for easier configuration when the SMTP server being used requires the user to login.
- For SMTP servers that do not support the “AUTH LOGIN”, the ConnectUPS now correctly ignores using the authorization mechanism.
- Fixed a problem where the card was incorrectly converting the OID for RFC-1628 Trap sequence IDs greater than 127 bytes.
- An Eaton logo now replaces the existing Powerware logo.

Version 1.40 (January 2004)

- The problem where the ConnectUPS can repeat the sending of email notifications endlessly has been corrected.
- Web Links 1 and 2 were updated to direct the user to the current registration and MultiView download pages.
- DHCP functionality was adjusted for better compatibility with DLink brand SOHO router products.
- The Percent Load calculation was adjusted to accommodate 3 phase UPS models with very large VA capacities.
- The initial lack of communications with the UPS during startup will no longer generate an Email Notification or SNMP Trap indicating the loss of communications.

Version 1.39

- Low Battery conditions, as reported by the UPS, will no longer instruct Netwatch clients to start their OS shutdown process unless the alarm is reported while there is an AC Failure.
- Low Battery conditions, as reported by the UPS, will no longer instruct the UPS to turn off its output unless the user specifically sets “Load Segment to Turn Off following OS Shutdown” from it’s default of No, to Yes.
- Fixed the logic behind the Control page’s ability to Turn Segment/Turn UPS Off such that its use will instruct Netwatch clients to start their OS shutdown process, but unless “Load Segment to Turn Off following OS Shutdown” is set to Yes, the UPS will not be instructed to turn off. This is useful for testing Netwatch client shutdowns without accidentally turning off the UPS output to non-computer loads.
- PowerMIB objects upsShutdownAfterDelay and xcpControlOutputOffDelay are now remapped to XCP 0x8A command from XCP 0x8B.
- SNMP monitoring of xupsRecepOffDelaySecs and xupsRecepOnDelaySecs during countdowns will now yield better updates of these values.
• Fixed a problem with blank email messages being generated from the Email Notification function in reference to Building Alarms and Breaker Open Alarms.
• Receptacle Turn Off and Turn On status now consistent between the HTML-based Control page and SNMP (via the PowerMIB).

Version 1.38

• Fixed a problem with v1.37 that allowed the web-based Control Page to be used to instruct the UPS output to turn off with no regard for the customer’s settings on the UPS Shutdown and Restart Settings page.

Version 1.37

• Fixed the problem that caused erroneous messages to be logged in the Event Log with PW 9120 and PW 9170+ models.
• Fixed the serial/Telnet Pass-Through exit sequence to prevent reconnection via PowerVision software while the UPS re-initialization process is still taking place.
• UPS data collection retries were increased from 3 to 6 to avoid data dropping under certain conditions.

Version 1.36 (Not Released)

• Protection was added to prevent corruption of the flash memory on the card that lead to the defaulting of the IP Address, Gateway and Mask information under certain circumstances.
• Some customers experienced the disappearance of the Superuser username text with earlier firmware versions. The problem was found and corrected in this version.
• During the resetting of the card to factory default (a required step during the upgrade process) this version of firmware now retains the existing IP Address, Gateway and Mask values, allowing the card to remain visible on the network.
• Factory default settings for “Load Segment to Turn Off following OS Shutdown” and “Load Segment to Restart following the return of AC Line” are now both set to No.¹
• The SNMP Write Access Manager’s list (visible via serial or Telnet connection) now allows an SNMP-based network management system at any IP address to have read access using the Community String ‘public’ and read/write access using the Community String ‘private’.²
• Email Event Notification (via SMTP) functionality has been improved to allow the user more flexibility during configuration for use with more secure SMTP servers (optional SMTP port number, Substitute Domain Name for sender’s email address, Optional SMTP Username and Password are now available).
• Enhanced Status@aGlance functionality for use with Powerware’s free MultiView software.
• SNMP-related get and get-next functionality has been improved for compatibility with IBM Director and other network management platforms. Additionally, the card will no longer reply at all when polled with an OID from another private MIB (often done to search for new device on a network).
• SNMP-based UPS shutdown and restart parameters have been more closely associated with the parameters that are visible on the HTML-based configuration pages.
• Changed implementation of xupsControlOutputOffDelay so that the object will not refer to the upsAutoRestart setting while performing a shutdown command.
• Changed the implementation of xupsRecepAutoOnDelay to allow settings of less than 30 seconds to be acceptable via SNMP.
• Any configuration fields that need to be cleared via a serial or Telnet connection may now be cleared by entering the ‘~’ character.
• Improved communications with the Expansion Chassis to allow for the Modbus card’s boot-up timing.
• User configurable web link URL size has now been increased to 127 characters. Web link #2 has now been factory configured to link to Powerware’s free MultiView software download site.
• Improved Telnet communications in pass-through mode.
• Detection of communications lost conditions with the UPS has been improved.
• AC Failure detection has been improved to prevent accidental notification of AC Failure while some UPS models perform self-tests.

1 Customers have expressed concern over the card’s built-in intelligent ability to instruct the UPS to turn OFF connected loads during extended power failures. Because of this, defaults for these parameters will now be such to ensure that the ConnectUPS SNMP/WEB Card never instructs the UPS to turn off its output. The user is allowed to change these settings back to Yes, but it is strongly advised that they review the User Guide or card’s on-line help text to better understand the settings.

2 Although these defaults (255.255.255.255 in the IP address column) allow faster integration time, it is highly recommended that security-conscious administrator edits the settings and provides specific IP addresses to make the card ‘secure’ in their environment.

Version 1.35
• Removed the "Pass-Through" timeout function
• Changed title of Status@aGlance to reflect the "Identification Information" field

Version 1.34
• Implemented Pass-Through mode to enable the web card to become the network access avenue between Powervision and the UPS

Version 1.33
• Implemented IBM Director compatibility

Version 1.32
• Implemented changes for SNMP security issues reported by CERT.

Version 1.31
• Improved mail server communications

Version 1.30
• Added user configurable web links
• Enhanced Status@aGlance screen colors
• Allowed dip switches to enable BootP/DHCP
• Changed displays for 9340 UPS

Version 1.20
• First firmware version for X-Slot card P/N IPK-0330
• Improved RFC1628 MIB reporting in email function
• Improved repeat email symptom
• Improved battery test reporting with 9125 UPS
• Changed PowerMIB filter rules for SMTP event level

Version 1.0
• First firmware version for -BD card P/N IPK-0329