10/100Mb ConnectUPS Web/SNMP Card Firmware Enhancement History

This history applies to kit part numbers 103002974-5501 and 103002973-5501, plus part number 103003535-5501 which first shipped with v3.00 firmware. It does NOT apply to cards with blue PC board material that first shipped with v4.18 firmware (RoHS compliant hardware).

**Version 3.38 – November 2012**

- Fixed the SNMP Output Watts value for both 1-phase and 3-phase UPS. Version 3.36 was incorrectly displaying the output watts by power factor of 10.
- Changed the data value storage size for “xupsBatTimeRemaining” from a WORD to Double WORD. This problem was reported by a customer using 9130 UPS with extended batteries packs.
- Fixed a math calculation/conversion error for upsEstimatedMinutesRemaining.
- Fixed a buffer overflow issue affecting output current values used in the percent load calculations. Version 3.36 (non-RoHS) was incorrectly storing the output current values as a double word integer with format xxx.xx. In version 3.38 the output current values are rounded down to xxx format which correctly stores the appropriate value.

**Version 3.36 – November 2011**

- The algorithm for the SNMP output power (Watts) now matches the algorithm of the output power (Watts) value that is displayed on the web Summary page.
- A decimal rounding error is now fixed for the SNMP Input Current value.
- A double word overflow error is now fixed for the SNMP Input True Power value.

**Version 3.34 – December 2010**

- The MAIL FROM field was being set to UPS.Web.Card@xxx.xxx.xxx.xxx (xxx.xxx.xxx.xxx represents the IP address of the mail server) following a reset to default in v3.32 firmware. It should have been set to UPS.Web.Card@eaton.com. This was only evident in the SMTP server log and has been corrected with this release.
- The user may now completely view the Card Settings and Event Log Summary via SSH. Data is released immediately via SSH now to prevent display issues.
- The time zone for Venezuela (GMT – 04:30) has been added in this release. DST rules for the other supported time zones were reviewed and updated as necessary.

**Version 3.32 – September 2009**

- The data corruption problem related to the emailed Data Log CSV file has been fixed. The data packet processing mechanism was improved to better handle large data packets in the Data.csv file.
- The Telnet session timeout value is now 180 seconds. In previous firmware versions it was 60 seconds.
- The buffer overflow problem related to SNMP MIB objects xupsInputWatts and xupsOutputWatts is now fixed. In previous firmware versions the SNMP values for xupsInputWatts and xupsOutputWatts per phase were not correct when the actual reading from the UPS exceeded 65535 watts.

**Version 3.30 – October 2008**

- UPS event “cleared” emails are now sent for all event levels (critical, major, minor, all) when Event Type PowerMIB is selected. In v3.28, UPS event “cleared” emails were sent when only event level “all” was selected.
- The ConnectUPS Web/SNMP card’s firmware version is now also displayed on the Summary web page and on the serial/telnet connection login page for easier identification.
- A user-configurable menu item was added to allow a user to enter a hostname for the DHCP request.
• Daylight saving time (DST) is now adjusted automatically (default) based on the programmed rules for the user-selected time zone. If the user wishes to ignore DST in a specific location the *Daylight Saving Time Enable Automatically* box may be unchecked. The time zone selection and automatic adjustment for DST is only available when the card is configured to synchronize with an available NTP Server. Previous versions of firmware required a manual adjustment for DST twice a year.

• *ABM Status* information is now displayed on the Summary web page if the connected UPS has the Advanced Battery Management feature.

• Outgoing event emails now have the tag `ALARM NUMBERS< >` in the email body indicating the UPS-specific alarm number(s) that caused the email to be sent. In the past, this tag was `ALARMS< >` which was confusing to some users.

• The ConnectUPS Web/SNMP card’s web pages have an updated color scheme consistent with Eaton’s Power Xpert supported devices.

• The *ConnectUPS card initiated NetWatch client shutdown* logic for a manual load segment shutdowns is fixed. Now, during a manual load segment shutdown, the ConnectUPS does not instruct NetWatch clients to shut down when “Load segment to turn off following OS shutdown=No”.

• The Input Frequency data corruption problem related to the emailed Data Log CSV file has been fixed.

• The email sending mechanism was improved to better handle resending emails after a network connection has been regained.

• The ConnectUPS now implements PowerMIB object `xupsRecepShedSecsWithRestart` to support multiple load segment UPS models. In the older firmware, only MIB object `xupsLoadShedSecsWithRestart` (for the whole) was implemented.

• The default address for *Sender’s Email Address* and *SMTP Reply to Address* have been changed from `UPS.Web.Card@xxx.xxx.xxx.xxx` (where xxx is the card’s IP address) to `UPS.Web.Card@eaton.com`. SMTP servers were known to reject emails coming from the old formatted email address.

• The ConnectUPS now sends a trap/email when the UPS annunciates the clearing of alarm `xupsAlarmTestInProgress`. This alarm is associated with the UPS battery test.

• UPS-initiated battery test results are now reported by the ConnectUPS. In previous versions of firmware, only test results from a ConnectUPS-initiated battery test were reported.

**Version 3.28 – December 2007**

• The Japanese language support has been updated to correct previous translations issues.

• UPS shutdown and restart capability has been added so that EMP-related shutdown events can now trigger the UPS to be turned off and (optionally) back on.

• Emails sent from the card now include an `ALARMS` tagged field in the email body that provides the native XCP alarm number that’s responsible for triggering the email.

• SSH support can now be enabled/disabled via serial, Telnet, SSH and the Configuration webpage.

• The ConnectUPS help text that explains the *Last Battery Status* was changed to clarify that it is related to a ConnectUPS Web/SNMP card-invoked battery test rather than the status of any test initiated by the UPS itself.

• The PowerMIB-asserted trap ID number for `xupsAlarmOutputBad` now correctly displays ID 46 for traps sent by the ConnectUPS.

• The ConnectUPS no longer reboots and output the message "No memory space" to the configuration port following a SSH session that has timed out.

• SSL support has been enhanced to be more secure. With previous versions of firmware each card shared the same Certificate Authority (CA) and generated a single certificate from that CA. Now, each ConnectUPS creates its own CA during the first boot-up and generates a single certificate from that CA. The result of this is that users may now use SSL to view more than one ConnectUPS in tabbed browsers such as IE7 and Firefox.

• XCP alarm #246 (Neutral Current Limit) has been remapped from an internal failure (WKA_FAL) condition to a notification condition (WKA_NTC) inside the ConnectUPS to lessen the severity of notification when this condition occurs under normal conditions on some UPS models.
• The default event type selection that determines which SNMP MIB is referenced to generate email
notifications has been changed from the RFC-1628 MIB to the PowerMIB since that is the preferred
selection.
• In previous firmware versions, the ConnectUPS reports a loss of UPS communication after 6
communications retries. In v4.28, a user configurable menu item was added to the serial/Telnet interface
to allow a user to set the number of communication retries before the ConnectUPS will report a loss of
UPS communication. The number of retries can be adjusted from 6 to 50. This was implemented to
provide some flexibility when used with the Powerware 9370 UPS.

Version 3.26 – June 2007

• The number of supported UPS alarms was increased to support additional alarms present in the
Powerware 9395.
• When the ConnectUPS sends a PowerMIB trap indicating that an alarm no longer exists, the OID
associated with it ends with the appropriate alarm number instead of .209 which never changed in
previous versions.
• The ConnectUPS now correctly sends emails when the language support has been localized to French,
 German, Italian, Portuguese-Brazil, Russian, Simplified Chinese, Spanish or Japanese.

Version 3.22 – February 2007

• A RSS feature was added to allow a short status “feed” to be displayed in appropriate RSS reader
software.
• Japanese language support is now available. The language file can be downloaded from Powerware.com
and applied to cards as a supplemental language.
• The card now correctly disables the DHCP mode associated with DIP switch 2 when that switch is
returned to the OFF position.
• The card now provides the correct IP address when sending a Loss of Communications trap. In previous
versions, the IP address associated with the trap was incorrect.
• For UPS models that do not support initiating a battery test, the card will no longer allow the test to be
requested via SNMP.
• SNMP traps associated with the return of AC power will no longer be sent out by the card if they
happen within the time value associated with Delay Before First AC Warning Message.
• The default value for RFC-1628 UPS MIB object upsAutoRestart is now Off in order to be
synchronized with the web page displayed Load Segment to Restart following the return of AC Line.
This prevents issues when LanSafe software is used to communicate with the UPS through a
ConnectUPS.
• Netwatch client support has been improved by resendig client shutdown requests until an appropriate
acknowledgement is received.
• The ConnectUPS Web/SNMP firmware upgrade utility Upgrade100.exe has been enhanced to support
multiple network interfaces on the host PC. The new version is 3.10.

Version 3.20 – April 2006

• Emails sent from the card now include a MODEL tagged text field in the email body to indicate the
UPS-configured model text.
• The UPS Data log page was fixed to correctly display the load percent and output voltage for the 9155
UPS with specifically the 3-phase input / 1-phase output configuration. The load percent and output
voltage data were misaligned on the UPS Data Log page which also resulted in misalignment occurring
in the Datalog Applet display and data log files sent along with emails from the card. Note: The
Summary web page was unaffected by this problem.
• The card now logs the event message “Shutdown request sent to registered clients” whenever an EMP-related event occurs AND the user has selected “Notify Client OS to Shutdown” which instructs Netwatch clients to start their OS shutdown process based on the EMP-related event (temperature, humidity, contact closure) occurring. Previously, the OS shutdown activity was initiated correctly, but the card’s event log didn’t contain a record of the shutdown process being started.

Version 3.18 – November 2005

• The Date format is now user-selectable. The user may now choose how they wish to view the displayed calendar Date on the card’s HTML pages. The selectable date formats include mm/dd/yyyy (default), dd/mm/yyyy, yyyy-mm-dd and dd mm yyyy.
• EMP-related: The minimum Humidity Lower Limit has been changed from 10% to 0%.
• The EMP Settings page has been enhanced to allow the user to select Temperature and Humidity hysteresis values. The range for the Temperature Hysteresis is from 0 to 10 degrees Celsius. The range for the Humidity Hysteresis is from 0% to 20%.
• The BatteryBadAlarm trap mechanism was fixed to send traps when the UPS-generated Battery Bad Alarm exists. This generates a “Replace Battery Warning Condition Exists” event in the log and an identical email message (if enabled).
• The ConnectUPS DHCP mechanism has been enhanced to support a DHCP lease time as short as ½ hour.
• 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.

Version 3.16 – July 2005

• The Email Notification page has been enhanced for easier configuration. Advanced settings are now found on a link from the main Email Notification page. The user is now allowed to specify a complete, valid sender’s email address of their own choosing. Emails from the card will then indicate that address as the sender. The Advanced Settings page includes fields for a Sender’s Email Address, Optional SMTP Username, Optional SMTP Password, SMTP Reply to Address and SMTP Port Number. These fields are also accessible via Serial, Telnet and SSH connections.
• Emails sent from the card now include a LOCATION tagged text field in the email body to indicate the user-assigned location of the UPS.
• The Date and Time can now be configured to periodically synchronize with an internet accessible NTP (Network Time Protocol) server. In addition, manual synchronization with the user’s PC through the browser is also available. The ConnectUPS event log will indicate any time the clock is adjusted and by what method. Configuration of these options is available via a web page, as well as Serial, Telnet and SSH connections. Note: This replaces the original reliance on Netwatch clients for date and time synchronization and user-configurable fields for Primary and Secondary Date Server have been removed.
• The ConnectUPS DHCP mechanism has been enhanced to allow the ConnectUPS to correctly make a request for an IP Address when the DHCP lease time expires and not respond to the old IP Address after renewal to a new IP Address.
• When used with an EMP (Environmental Monitoring Probe) and a PW9390 with appropriate UPS firmware, the ConnectUPS can now share monitored temperature data with the 9390.
• The inconsistent font used on the last line of the Language Selection Help page in v3.14 f/w is now fixed.
• The ConnectUPS now replies with NoSuchName to SMMP GETs during periods where communication with the UPS does not exist.
• The per Phase Input and Output voltages are now correctly recorded and displayed on the UPS History Data Log web page for dual and three phase UPS models.
The ConnectUPS now returns the correct value for the MIB objects upsConfigOutputPower and xupsConfigOutputWatts.
The OnBatteryAlarm trap mechanism was fixed to stop sending traps when the OnBatteryAlarm no longer exists (A bug in v3.14).
The ConnectUPS now correctly displays negative Battery Current from the PW9305 UPS.

Version 3.14 – March 2005

- Support was added for PowerMIB objects xupsBatteryLastReplacedDate, xupsLoadShedSecsWithRestart, xupsConfigDateAndTime and xupsConfigInstallDate.
- SNMP support allowing getting or setting the Power Strategy command has been disabled due to lack of UPS support for the XCP command.
- The UPS Battery test initiation process has been enhanced to keep better track of test results on those UPS that schedule testing for hours after the request has been made.
- 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.
- Battery “Runtime” data (in minutes) is now displayed all the time on the Summary HTML web page. Previously, it was only displayed during a power failure.
- RFC-1628 and PowerMIB alarms upsTempBad and xupsAmbientTempBad respectively are now correctly mapped to UPS alarms 202 and 203.
- Spanish language support is now one of the three permanent languages supported by the ConnectUPS.
- Bad serial data is filtered at the UART level now rather than just relying on data checksum calculations. This and the enhancement directly below will work together to avoid false UPS alarms in particularly noisy UPS environments.
- Alarm filtering has been enhanced to avoid reporting the existence of UPS alarms that fall outside the acceptable range of XCP alarms.
- An Eaton logo now replaces the existing Powerware logo.
- SNMP support has been added for PowerMIB object xupsOnMaintenanceBypass.
- Support has been added back in to allow a home-brew contact closure monitoring cable to be used with the ConnectUPS as described in the user guide. Anyone not needing the temperature and humidity monitoring provided by an EMP can still monitor contacts using this support.
- The “Remote Temperature” field on the HTML Summary page now displays the correct degree type when the user changes it from Celsius to Fahrenheit and visa versa.
- Support for bypass-related meter data has been enhanced to work properly with PowerVision software.
- The ConnectUPS now can provide its own tally of the number of times the UPS has gone to battery. Previously, the MIB object upsInputLineBads relied on the UPS only for the data. Not all UPS models provide this data.
- Added “Minor” as one of the options for the severity level of traps to be sent to a requesting host. This is now consistent with the PowerMIB object xupsMaxTrapLevel.
- During extended periods where the network connection has been lost, the card will no longer lockup when attempting to send multiple emails. Email notification will resume properly after the network is reconnected.
- During a low battery condition, when configured to use RFC-1628 traps to generate email notifications, the card now sends the correct low battery event email notification.
- The 9150 and 9305 UPS detection algorithm has been fixed to allow correct communication with these UPSCode-speaking models.
- 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.
Version 3.11 – July 2004

- Temperature and Humidity data points from the supported EMP device are now logged in the UPS Data Log, displayed in the Java applet’s graphs and included in the log files that are optionally sent by the card’s Email Notification functionality.
- Functionality was added to allow the user to test the card’s network connection and optionally test for access to their SMTP server, SNMP trap receivers, etc. This aids in the confirmation of the correct card settings during installation.
- Dynamic detection of a connected EMP has been improved to prevent false detection in electrically noisy environments.
- Support was enhanced for the Powerware 9155 UPS where the number of input phases may not equal the number of output phases for SNMP, HTML display and data logging.
- Support was added to allow the status of the 93xx series UPS Maintenance Bypass to be obtained via SNMP.
- SMTP-based Email Notification configuration has been enhanced to allow for easier configuration when the SMTP server being used requires the user to login.
- “Delay Before First AC Fail Warning Message” now also provides a delay for SNMP trap sending as well as email notification. Previously, this delay only affected Netwatch client notification at the time of the power failure.
- Fixed a problem where the SSL certificate calculation was exceeding the card’s watchdog timeout value causing the card to reboot itself.
- Fixed a problem where the EMP’s contact closure status was being reported wrong (active = inactive, inactive = active) and corrected the SNMP support in this area, too.

Version 3.10 – February 2004

- Multilanguage HTML support was added to the product. Simplified Chinese is now provided in addition to English. Additional languages will be released at Powerware.com as they become available.
- SSL and SSH support added to the product to enhance security.
- When the card is restarted, it will no longer send an initial Communication Lost trap (and email notification, if enabled) before it establishes communication with the UPS.
- The data graphing applet was improved to correctly display the battery voltage data in a floating point format. Previously, it was treating all battery voltage values as integers.
- Various meter values were reviewed and their type casting adjusted to ensure that values obtained from large-capacity 3-phase UPS models were not exceeding the card’s ability to display the proper values.

Version 3.03 – January 2004

- Support added to allow use of a second source flash ROM part during manufacturing. This version of firmware was factory installed in cards starting in January 2004. It was not made available as an update to existing cards in the field.

Version 3.02 – November 2003

- Web page “look” was updated to match current Powerware.com color standards.
- Default web links were updated to link directly to applicable new Powerware.com pages (requires user to reset card’s parameters to default to see).
- Support added to cause the LED on the optional EMP module to blink during data transmission with the ConnectUPS.
- Support added to allow the ConnectUPS to work with an EMP even if an UPS is not connected.
• The problem where the ConnectUPS can repeat the sending of email notifications endlessly has been corrected.
• False detection of the EMP module has been corrected.
• UPS detection problems relating to support added for the 9305 and 9150 UPS models has been corrected (XCP has the priority).
• With regards to 9305 and 9150 support, the overall UPS status message on the summary HTML page has been enhanced to indicate any underlying alarms, even though the UPS reports that it is still capable of supporting the load.

Version 3.01 – August 2003

• HTML-based configuration support added to support Powerware’s EMP kit.
• The UPS’ serial number and ConnectUPS’ MAC address are now automatically sent as part of the email notification content.
• Serial (only) pass-through communications to the host UPS available by switching DIP switches 1 and 2 to ON and restarting the card. This feature is useful when conditions call for the UPS firmware to be “flashed” locally.

Version 3.00 – June 2003

• The Identification page found in v2.03 and prior has now been replaced with the Summary page (pSummary.html) as the first web page the card displays. The Summary page replaces the UPS Monitoring pages by combining their data onto one single page.
• Support was added in the firmware for use with the Powerware 9305 and 9150 models. Version 3.00 f/w will be the first firmware to ship in the new ConnectUPS-E (external) Web/SNMP product (PN 103003535-5501).
• This version in qualified for use with Powerware’s LanSafe 5 software.
• User Link Number 1 is now set by default to take you to the Powerware Product Registration page. Hover text is provided for this link until the user changes the default URL.
• Shutdown testing of individual registered clients may now be performed via the Registered Clients page. Clients can be individually selected.
• Last Battery Test information is available on the Summary Page. It displays Unavailable if the card is unaware of it being run since the card was “reset”. Otherwise, it displays the date, time and pass/fail status of the last test.
• The card now makes an icon available to IE or Netscape browsers if you add the card’s IP address/host name to your “favorites”.
• UPS Firmware information is now clearly visible on the new Summary page. The card’s firmware version is still visible on the Configuration page.
• Latest PowerMIB v3.03 objects were added.
• Support for Powerware’s EMP was added.
• Help text was updated to match the new Summary page.
• Any time the card’s firmware is upgraded (v3.00 going forward), the Event Log will list the date and time of that upgrade.
• Instead of returning 255 all the time in reference to performing a get on xupsTopoPowerStrategy, the card will now return Not Supported if the UPS does not support it internally.
• A Low Battery indication by the UPS will be logged by the card, but will not cause the card to notify registered NetWatch clients to start an OS shutdown unless an AC Failure is also indicated by the UPS.
Version 2.03

- 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 its 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).
- Internal handling of Flash to RAM transactions has been modified to reduce network packet retries while the CPU is busy working with the Flash.
- Fixed a text error on the help page for the Registered Clients page to correctly reflect that the card can support up to 255 registered Netwatch clients.

Version 2.02

- Fixed a problem with v2.01 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 2.01 (Not Publicly Released)

- UPS polling cycle was increased from once every 10 seconds to once every 4 seconds.
- 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).
- Boot code protection was added for network-based upgrades using upgrade100.exe.
- 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.
- UPS data collection retries were increased from 3 to 6 to avoid data dropping under certain conditions.
- The help text page for the Shutdown and Restart Settings page was changed to reflect the correct default value for the shutdown delay (180 seconds vs. 30 seconds).
- A Card Settings and Event Log Summary selection has been added to the Serial/Telnet menu to allow the card’s configuration and event log contents to be captured for analysis.
- The Send Card Settings and Event Log Summary feature was added to the Serial/Telnet Email Notification menu to allow the card’s configuration and event log contents to be emailed to a recipient for analysis.
• For compatibility with older Powerware UPS, the request for the "UPS Status (0x33)" command was changed from a two-byte parameter to a one-byte parameter when requesting the whole UPS’ status.

• 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.

• Fixed the problem that caused erroneous messages to be logged in the Event Log with PW 9120 and PW 9170+ models.

• The event log page roll-over issues was fixed.

• Fixed the serial/Telnet Pass-Through exit sequence to prevent reconnection via PowerVision software while the UPS re-initialization process is still taking place.

• Data logs are now organized in 30 minute groups instead of 20 minute groups (assumes 1 minute data logging interval – default).

• The HTTP port number is now a configurable item found in the Serial/Telnet configuration.

• 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.

• The menu selection for restarting the card via Serial/Telnet connection has been redesigned such that upon verification of restarting the card, it does so without presenting the user with the menu again.

• 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

• The Status@aGlance feature now works correctly during a UPS battery test.

• The SNMP implementation for xupsRecepOffDelaySecs for multiple load segment UPS models was improved.

• Improved Telnet communications in pass-through mode.

• Configuration menu sub-item SNMP/WEB Adapter Configuration was changed to Web/SNMP Card Configuration for consistency.

• The DNS IP Address and SMTP Mail Server configuration items are now located in multiple places to make configuration easier from a serial connection, Telnet connection or browser.

• Boot code was improved to correctly identify a cold boot vs. warm boot after restarting the boot code.

• 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 2.00
• First firmware version for –X card P/N 103002974-5501 and –BD card P/N 103002973-5501