

## Firmware Release Notes

CPI recommends that all eConnect PDU customers upgrade to the current firmware version.

### New feature in this release 1.22.1:

- Improved PDU boot up sequencing.
- Improved firmware upgrade for Standalone and Daisy-chained PDUs.
- Improved remote firmware upgrade capability.

### Upgrade Procedure:

- Download the zip file from the website.
- Unzip "cpipackage-20140710-svn5633.zip"
- Save "cpipack-20140710-svn56633.bin" to a USB flash drive in the root folder. Make sure there are no other files with ".bin" extension in the root folder.
- Plug the USB flash Drive into the USB port on the PDU and use the LCD menu to perform the firmware upgrade.
- Confirm the PDU new firmware version after the PDU reboots:
  - Firmware version: 1.22.1

### Previous Firmware Release History:

Version 1.21.215: (Released on 6-12-2014)

#### NEW FEATURES

- Bootloader revised to use a second image of the PDU kernel for use if the primary image is corrupt.
- Web GUI now displays the bootloader revision number on the administration page of a master/standalone PDU.
- Web GUI properly handles empty log directories when log files are exported.
- The LCD display now shows the bootloader revision number on the 'info' page.
- The Outlet Groups now show total power.
- Changed the Export Logs page to show files by selected folders which speeds page loading.

#### BUG FIXES

- A display page issue is fixed when exporting logs if logging had never been turned on, or the current log folder has no file.
- If the PDU time has been previously synched with a time server and the user time is different than PDU time, then the user is no longer redirected to the admin advanced page to change time.

Version 1.21.116: (Released on 3-21-2014)

#### NEW FEATURES

- Total current for 3-phase PDUs is hidden on both on the LCD display and Web GUI since direct summation is not a valid operation. Single phase PDU total current is still displayed.
- Temperature alarm emails are sent in units of Fahrenheit or Celsius according to the PDU's configuration.
- Blank authenticated usernames are allowed (i.e., anonymous login) for SMTP.

#### BUG FIXES

- The problem of not sending alarm notifications during very early stages of the PDU boot process has been fixed.
- Better internal detection and correction of stuck threads.
- Fixed hang scenario if the system time is changed under certain circumstances.
- Handle the case when user incorrectly configures SMTP port to 0.
- Only terminate dead sessions after a timed-out command at of least 5 minutes.

Version 1.21.24: (Released on 1-13-2014)

#### NEW FEATURES

- The LCD display font size was increased for better readability.
- The Master and Second PDU algorithms were revised for better fail-over and resume operation if a network connection is lost and then subsequently restored.
- Terminology displayed on the web GUI was modified to be consistent with accepted industry standards.
- Line input currents are now displayed in addition to the branch currents on both the LCD display and web GUI.
- Outlet currents are now displayed on the LCD display for Monitored Pro (P4) and Switched Pro (P6) models.
- If an alarm or warning is triggered for any outlet, the outlet currents are shown in red or yellow respectively on the LCD or web GUI.
- The web GUI now shows linked PDUs underneath the appropriate master in a more intuitive device tree representation.
- Branch labels were changed to reflect Delta (XY, YZ, ZX) and Wye configuration (XN,YN,ZN). For 6 breaker units, a number indicates the breaker set (XY1,YZ1 etc).

Version 1.17.232: (Released on 5-31-2013)

#### BUG FIXES

- The time Synchronization feature generates copious error messages when there is no time server or if it has problem sync'ing the time. After 6 months of logging errors it could fill up the storage and prevent any further webgui logins, network service reconfiguration and firmware upgrade. Fixed by keeping in the error log only the last error, therefore not allowing it to grow.
- Fixed branch and outlet currents to not show 0 if the load exceeds 21A.