

## **Firmware Release Notes 5.3.1054**

**Do not use this firmware version if any of the PDU's within the Secure Array have an MCM1 controller.**

Below is a guide to identify your eConnect PDU controller:

MCM4 controller:

The unit is marked as "eConnect Controller 4"

The unit optionally has two Auxiliary Ports labeled as "AUX1" and "AUX2".

The unit has two USB connectors.

MCM3 controller:

The unit has two Auxiliary Ports labeled as "AUX1" and "AUX2".

The unit has the Ethernet Port labeled as "10/100/1000 MB".

The unit has two USB connectors.

MCM2 controller:

The unit does not have "AUX1" and "AUX2" ports.

The unit has the Ethernet Port labelled as "10/100/1000 MB".

The unit has one USB connector.

MCM1 controller:

The unit does not have "AUX1" and "AUX2" ports.

The unit has the Ethernet Port is labelled as 10/100 MB only.

The unit has one USB connector.

### **Security Updates:**

- Based on guidance from the cyber security community, support for older cryptographic encryption has been removed.

### **New Features:**

- Per California & Oregon Laws, when logging into the 'admin' account, for the first time, a password change is forced. (See Addendum)
  - If the PDU Users are reset, the Admin account will force a password change on the next login.
  - This is pursuant to California/Oregon IoT laws as described in [California SB 327](#) and [Oregon House Bill 2395 amending ORS 646.607](#)

### **Improvements:**

- SNMP:
  - The SNMP Description for 'cpiPduSensorValue' has been clarified, noting that the values shown should be divided by 100.
- Firmware Updates:
  - Added feedback to the WebUI when attempting a FW Update with a bad FW Update image.
  - The FW Update process will now validate the individual FW files against their MD5 checksums. Any validation failure will result in the FW running at that time, remaining intact.

#### **CPI Firmware Release Notes 5.3.1054 (06/2023)**

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**Improvements (continued):**

- General:
  - o Added the ability to rename outlet groups via the CLI.
  - o Added a description to the CLI config-get/set ssh command.
  - o Cloning users from the Primary to SecureArray members now provides success/fail feedback.

**Issues Addressed:**

- SNMP:
  - o Addressed an issue in SNMP where IPv4 addresses that include a subnet of .0., would return a timeout response.
  - o Addressed an SNMP issue with legacy 'receptacleStatus' (OID .1.3.6.1.4.1.30932.1.1.3.7.x) reporting incorrect outlet status.
  - o Addressed an issue where the SNMPTraps for 'Create', 'Edit' and 'Delete' Users reported the target account name and not who made the changes.
  - o Adjusted Outlet/Branch Energy values as reported by SNMP to reflect the 2 decimal place values also.
  - o Now return correct status for Bulk & SNMP requests for the Lock Error States.
  - o Fixed the SNMP 'syslogFacility' (OID .1.3.6.1.4.1.30932.1.10.1.1.3.24.0) to use the actual, defined 'LOG\_LOCALx' defined values.
  - o Added the missing 'smtpauthmethod' (OID .1.3.6.1.4.1.30932.1.10.1.1.2.3.14.0) Object to the Unity SNMP code.
  - o Fixed an issue with the Bulk API when adding a User. The User name is now included in the SNMP 'userAddAlert' (OID .1.3.6.1.4.1.30932.1.10.1.500.2.3).
- MIB:
  - o Addressed an issue with Legacy MIBs that broke SNMP Outlet Control.
  - o SNMP clarification of 'power' related metrics descriptions.
  - o Clarified the Power Factor description in the SNMP Legacy tree.
- LDAP:
  - o Addressed an issue where a PDU could lock out all accounts when LDAP is enabled.
  - o Addressed an issue where both LDAP and Radius could be simultaneously enabled.
  - o Fixed an LDAP issue that made assumptions about the DN used for authentication/verification of a user.
- CLI:
  - o Addressed an issue in the CLI where the commands "'config-get'/'config-set' PDU aux-mode" were not associated with the "WebUI": "Settings": "PDU Settings": "Aux Port Usage:" EAS/QPO Settings.
  - o The CLI 'ogroup' commands now report an error when the PDU does not have 'Controlled' or 'Monitored' Outlets.
  - o Addressed an issue with the CLI 'attach' command.
  - o Addressed an issue in the CLI "archive-cfg usb ..." and "restore-cfg usb ..." commands. The calls will now return an error if a targeted USB device is not attached.
  - o CLI clone commands now 'bounds check' parameters and provide proper command feedback.
  - o Addressed a CLI config-get indexing issue that would try to fetch data from a non-existent child PDU.
  - o Fixed a CLI 'archive-cfg' issue where the command would fail if a file, with the same name, existed.
  - o Providing a GroupID as part of the CLI 'user update' command, will send the same Traps and/or Alerts as when a Password is Changed.

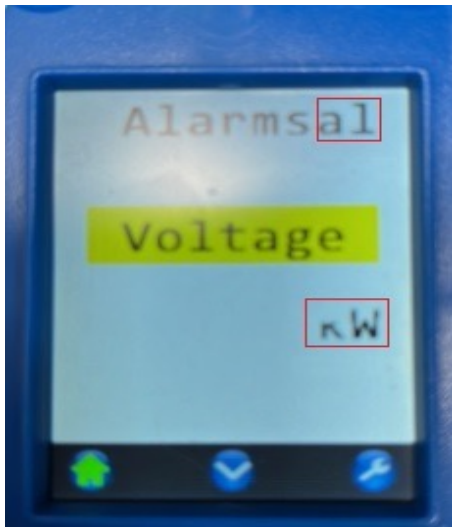
- **General:**

- o Modified the bulk endpoint to correctly report the temperature scale used.
- o Environmental thermal thresholds are limited to 150 F ( C limited to 65.5).
- o Addressed an issue that impacted QPO functionality.
- o Addressed an issue the caused errant MD5 files to be created.
- o Addressed an issue that would prevent the automatic WebUI refresh, on some web browsers.
- o Addressed an issue that could cause the system log rollover script to run continuously.
- o Reset All has been fixed to restore the Branch Current Max Threshold to 80% of the breaker values.
- o Addressed an issue where Currents for Lines 4, 5 and 6 were showing Line 1, 2, and 3 Currents.
- o Addressed an issue with incorrect data displayed on the LCD Screen for "K2x\_" PDU Models.
- o Addressed an issue that resulted in only 1 Input Line Page to be reported on the LCD.
- o The data gathering and measuring of EnergykWh values now accurately accumulates data on a continuous basis.

NOTE: The reported kWh values have been added to the metering data, which is preserved. As, prior to this FW Release, this data was not preserved, reported kWh values will start at 0 and maintained going forward. The kVAh will not be affected.

**Known Limitations/Issues:**

- On rare occasions, text from a previous display may show on the current display – *This is cosmetic only and will be addressed in the next FW Update Release:*



- Emails and Traps for secondary alarms may contain metrics data that is up to a minute out-of-date.
- MCM2 and MCM3 units will report outlet level power factor, but this power factor is not acquired at an outlet level due to hardware limitations. The reading is acquired at the branch level and then copied to outlets associated with that branch.
- Any configuration changes made while running 4.1x.xxx, followed by returning to 4.4.253 are NOT preserved when 4.13.1xxx imports the data. Configuration changes made while running 4.4.253 ARE preserved.

**Upgrade Procedure:**

- Obtain the firmware .zip file from <http://www.chatsworth.com/support-and-downloads/downloads/software/>
- Unzip the contents of the file pn-cpi-924-30531-001-202305xx-svn23xxx.zip to a USB flash drive. There is one file which must be transferred to the root directory: cpipack3-202305xx-svn23xxx.bin.
- Plug the USB flash Drive into the USB port on the PDU and use the LCD menu to perform the firmware upgrade.
- Confirm the new firmware version after the PDU reboots is 5.3.1054

**Addendum – Admin Password Handling:**

The following applies to the first time the built-in Admin account is logged in for:

- A new PDU when first placed into service
- Any existing PDU after a reset of the Users via the LCD, CLI or WebUI ◊

The handling of Password associated with the Admin account has been modified to comply with California IoT laws as described in California SB 327 (Similar bills have also been passed in other states):

**Bill Text - SB-327 Information privacy: connected devices. (ca.gov)*****TITLE 1.81.26. Security of Connected Devices***

***1798.91.04.***

***(a) A manufacturer of a connected device shall equip the device with a reasonable security feature or features that are all of the following:***

***(1) Appropriate to the nature and function of the device.***

***(2) Appropriate to the information it may collect, contain, or transmit.***

***(3) Designed to protect the device and any information contained therein from unauthorized access, destruction, use, modification, or disclosure.***

***(b) Subject to all of the requirements of subdivision (a), if a connected device is equipped with a means for authentication outside a local area network, it shall be deemed a reasonable security feature under subdivision (a) if either of the following requirements are met:***

***(1) The preprogrammed password is unique to each device manufactured.***

***(2) The device contains a security feature that requires a user to generate a new means of authentication before access is granted to the device for the first time.***

When logging into the Admin account, for the first time, when the PDU is placed into service or after doing a "Reset" of the User settings, you will be prompted to enter a new password.

This is considered compliant under 1798.91.04 (b) (2) – Highlighted above.

## WebUI:

### Admin Password Reset

At the time of initial installation or after doing a 'Reset' of the User Database, the default Admin password must be changed prior to any Administrative activities. This is pursuant to [California/Oregon IoT laws](#) as described in [California SB 327](#) and [Oregon House Bill 2395](#) amending ORS 646.607

\* Passwords are limit to 64 characters. Additional characters will be ignored.

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#### User Profile

User Name:

New Password:

Confirm New Password:

## CLI:

```
[PDU Cabinet]:[PDU Name]
-----
Name: admin
Password:
Password Reset Required.
Enter New Password: █
```

### Things to Note:

In the event of a Reset of the Users forcing a change to the Admin password, there are some behaviors to be aware of:

1. On a SecureArray, the Admin Password Reset only references the Admin Account on the Primary.
2. If LDAP is Enabled when the Users are reset, LDAP will be disabled.
  - a. As LDAP requires the user have a local account, the User reset removes those local accounts which will affect logging in with LDAP Authentication.
3. The change in password only affects the local login account. Any accounts authenticated by Radius will remain in effect.
  - a. Logging in to the system will fail if the updated password does not match the authentication established when Radius is enabled.
  - b. If Radius is ever disabled, the updated Admin password will be needed to log in to the local account.



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