

Firmware Release Notes 5.3.926

Applicability

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 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:

- Radius and LDAP UI Behavioral changes only.

New Features:

- On Switched & Switched Pro units, when a critical Branch Low voltage thresholds is reached, the LED's of affected outlets will blink
- eConnect PDUs with MCM4 now report "Energy" in "kWh" instead of "kVAh" and "Power" in "kW" instead of "kVA"

Improvements:

- General Issues:
 - o Added kW and kWh values to the Branch and Outlet Tables.
 - o Changes made to better identify the requesting command interface (WebUI, CLI, SSH or Bulk) in the alert messages being logged.
 - o Added the ability to fetch the system's FW Version via the "bulk/fwupgrade" endpoint.
- Addressed bounds checking issues for user password modifications and creations via CLI

CPI Firmware Release Notes 5.3.926 (09/07/2022)

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Improvements:

- CLI Issues:
 - o Added CLI and BULK Interface commands to choose between the use of a 'Custom' Certificate or the Manufacturer default Certificate for HTTP(S) Service.
 - o The CLI User Manual has been updated to reflect changes made to the CLI behavior.
 - o The CLI 'radius-card' Server key changed to match 'radius-srv' command - 'RServ[1|2|3]' is now 'rserve[1|2|3]'.

Issues Addressed:

- General Issues:
 - o Addressed an issue with reporting Current thresholds for outlets beyond the first 48.
 - o Fixed a bug that prevented DNS entries from updating on a DHCP restart.
 - o Fixed an issue where the default IP configuration was not invoked when the PDU cannot connect to DHCP.
 - o If Branch Critical Current thresholds are 0, they are now set automatically to 80% of the Breaker Limit (i.e. A 20A breaker would be set to a critical threshold of 16A).
 - o Fixed a bug that prevented the alerts from indicating the user who started a FW Update.
 - o Fixed a bug that could impact FW Updates from a USB stick.
 - o Added subnet mask to the network values that, when changed, will restart the PDU network.
 - o Resolved an issue that resulted in Max Humidity Warnings were sent as a Minimum Humidity Alarm.
 - o Addressed an issue where setting the log "Auto-Transfer" settings were not preserved.
 - o Fixed a bug that resulted in Config changes being logged as Outlet changes.
 - o Addressed a bug where setting "saEasFrontLockEnabled", "saEasRearLockEnabled" or "saEasLockHoldOpenTime", would result in changing "saEasDoorOpenAlarmTime" errantly.
- CLI Issues:
 - o Addressed an issue in the CLI that would allow a user to set an object's name to a non-alphanumeric value.
 - o Addressed an issue in the CLI that prevented changing the LDAP URI Setting.
 - o Addressed CLI issues impacting the ability to run CLI scrips from a USB device.
 - o Addressed a CLI issue. The 'user update <USERNAME> <GROUP> ...' command allows entering a '-' for the <PASS>, <CONFIRMPW> and/or <GROUPID> to indicate no changes are being made to those.
 - o Addressed an issue where the CLI 'ogroup list' command used different ID indexing than the WebUI.
 - o Fixed a CLI issue that would return an error when creating an outlet group name that was a sub-string of an existing group name.
 - o Fixed a CLI bug that prevented clearing the LDAP URI or Domain when specifying "" as an .
 - o Resolved a CLI "config-set" bug where the "occurrence" parameter would not account for the "0(All)" selection.
 - o Fixed a CLI bug that returned the wrong values when checking the 'Trap', 'Log' and 'email' enables.
 - o Addressed an issue that allowed the CLI to create a new user with a username < 4 characters long.
 - o Addressed an issue where the MCM ID, as reported by the CLI 'support' command, was incorrect.
 - o Fixed a bug in the CLI that left 'radius-server', 'radius-card' or 'ldap-user' configs enabled after a failed credential test. Now reverts to disabled.
 - o Addressed an issue in the CLI where a 'False Positive' was returned when testing user access to Radius, Radius Card or LDAP.
 - o Resolved a CLI issue that blocked members of the "Viewer" group from accessing values that are available via the WebUI.
 - o Addressed issues with the CLI "config-set" command and the information logged for the changes made.

Issues Addressed:

- SNMP Issues:
 - o Addressed an SNMP issue that resulted in certain object names are replaced by the OID itself.
 - o Addressed an issue in SNMP calls that could return a false Success result.
 - o Resolved an SNMP issue where 'autonetLog' was not connected to a system config setting.
 - o Fixed a bug that allowed non-integer values to be set for IPv4 addresses (i.e. saSnmpTrapHostIPv4 addresses).
 - o Fixed a bug in SNMP that allowed the Alarm Interval to be incorrectly set to a value from 1-59.
 - o Addressed an issue where 'Out of Bound' values could be set for several SNMPTable values.
 - o Fixed an SNMP bug affecting the ability to set 'saPduChainRole' on child PDUs.
 - o Fixed an SNMP bug that allowed saPduOutOfService to be set to a value other than '1' or '0'.
- BulkAPI Issues:
 - o Fixed a bug in the Bulk endpoint. Setting an Outlet name with a length of 64 characters added a 65th garbage character.
 - o Addressed an issue where FW Upgrades performed via the bulk Interface was incorrectly logged as coming from the WebUI Interface.
- WebUI Issues:
 - o Resolved a WebUI, SecureArray issue that could errantly associate an Alarm/Alert with a PDU in the Array List.
 - o Addressed an issue where the 'Logging Overview' might omit log entries if multiple system log files were queried.
 - o Addressed a math issue resulted in an incorrect bar graph for "
 - o Fixed a bug in the Outlet Group 'View' "Select All" checkbox. The outlets in the group will follow the 'Check' in this field.

Known Limitations/Issues:

- Emails and Traps for secondary alarms may contain metrics data that is up to a minute out-of-date.
- The Console 2 Port (Micro-USB) is currently not supported. Support will be added in a future release.
- CLI:
 - o Changing a User's group affiliation does not trigger a "userModifiedAlert" Trap.
 - o The 'firmware' command may report incorrect result information.
 - o The 'config-set outlet-groups name <outletID> <PduID> <outletName>' command is not logged by the system.
 - o The 'ogroup' command lacks the ability to make changes to an existing Outlet Group.
 - o In a SecureArray configuration, the 'attach' command is non-functional.
 - o A failed 'ldap-user test' command does not maintain the previous settings, reverting back to the default instead.
- SNMP:
 - o Display Brightness values outside of a valid range, are errantly sent to the system.
 - o The 'smtptauthmethod' configuration OID is not available.
 - o The 'Legacy' description for Power Factor, while accurate, does not match the method of other metrics, such as Temp and Humidity.
- BulkAPI:
 - o There is no 'trapInfoUserName' when a User is added via the BulkAPI.
 - o A temperature of -1 (realistic value) is reported when no temperature probe is attached.
- WebUI:
 - o There is currently no feedback (i.e. logged data) when a User is cloned.

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-924-30543-001-20220907-svn22250.zip to a USB flash drive. There is one file which must be transferred to the root directory: cpipack3-20220907-svn22250.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 5.3.926

