

Echoflex Solutions Release Note

Elaho Power Control Processor Software

Product Line: Power Control Processor Software
Description: Version 3.1.5 System Software / Firmware

Power Control Processor Software Components

Elaho Relay Panel Firmware	3.1.5.1
Elaho Relay Panel Bootloader	3.2.2.1
Network Option Card Firmware	3.0.3.4
DALI/0-10V Option Card Firmware	1.0.1.9.0.22
Echo Protocol	3.3.4.952

Effective Date: 2022-08-04

Purpose

The purpose of this release is to support an alternate LCD controller to alleviate part shortages. The Power Control Processor is used in the Elaho Relay Panel Mains Feed and Elaho Relay Panel Feedthrough.

For any questions relating to the contents of this release or the behavior of this software, please contact Echoflex Solutions Technical Services using the information at the bottom of this page.



Note: A Forward-Phase Dimmer can be identified from the Power Control Processor of an Elaho Relay Panel Mains Feed (**[Enter]>About>About Output**). The software version of a Forward-Phase Dimmer will display as a three-digit number (for example, 116). The software version of a Phase-Adaptive Dimmer will display as a two-digit number (for example, 16).

Availability

This software is currently available in all shipping Power Control Processors and by contacting Echoflex Solutions Technical Services. If you encounter difficulties or need an upgrade, a kit is available that includes a suitable USB stick with software pre-loaded (part 7123K1024-3.1.5).

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Documentation

Current documentation includes the Power Control Processor Configuration Manual and installation guides for the Elaho Relay Panel Mains Feed (including option kits) and Elaho Relay Panel Feedthrough (including option kits).

Please keep this release note with your installation guide for descriptions of the newest features, changes, and bug fixes. Echoflex Solutions manuals are in portable document format (pdf) and are available for download at echoflexsolutions.com.

Compatibility

This release is compatible with the following Echoflex Solutions hardware and software/firmware:

- Network Option Card
- 0–10V Dimming Control Option Card
- DALI Control Option Card
- RideThru Option
- Elaho Inspire Stations
- sACN Protocol: Ratified input compatibility



Note: *To ensure correct functionality, your Power Control Processor and Network Option Card must be running the same software version.*

Key Enhancements in v3.1.5

- Support for an alternate LCD controller

Key Enhancements in v3.1.4

- Support for an alternate processor for the Sensor IQ Distro Board

Key Enhancements in v3.1.3

- Bug fixes, including improvements to Network Option Card for connectivity

Key Enhancements in v3.1.2

- Bug fixes, including an issue that can cause processor lockup

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Software Upgrade Instructions

All Power Control Processors ship with the current version of software installed. The firmware of your Power Control Processor can be field-upgraded as needed. When new firmware is released, Echoflex Solutions Technical Services can supply the necessary files. Some USB keys may not be able to reliably update panels. If you run into this situation, contact Echoflex Solutions Technical Services and request a USB upgrade Kit (part number 7123K1024-3.1.5), which includes a known-working USB key.



CAUTION: *To prevent configuration loss, you must follow an upgrade path when your Power Control Processor is running a software version lower than v2.1.0. First, update your processor to v2.1.0, and then you can update your processor to v3.1.5.*

1. Technical Services will send you the most current software in a zip file or on the USB key in the upgrade kit. If using your own USB storage device, unzip and save the software file (echo_relay.efw) to the device.
2. Insert the USB device into the controller.
3. Navigate to [File Operations].
4. Save the current configuration onto the USB device.
5. Select [Update Firmware]. If using the upgrade kit, the firmware will be located in the subdirectory on the provided USB key.
6. Select the firmware file. The update will automatically begin.

Issues Corrected in v3.1.5

None

Known Issues Remaining in v3.1.5

- | | |
|-----------|---|
| PCP-47522 | Add support for new display |
| PCP-47504 | Sunrise based events use next occurrence's timing (timeclock) |
| PCP-47488 | First activation of emergency causes relays to be stuck on until levels are set/released |
| PCP-47452 | Playing a preset from front panel sends incorrect manual timing to other Echo hosts |
| PCP-47447 | Updates of co-processor cards may not happen correctly during upgrade
Workaround: Repeat upgrade if necessary, and check all firmware versions after upgrade |
| PCP-47446 | PCP can fail to detect or read USB stick |
| PCP-47444 | After firmware update, backlight and contrast settings may be reset
Workaround: Re-configure backlight and contrast after a firmware update |
| PCP-47434 | When downgrading the panel from the Web interface, the Network Option Card may not downgrade
Workaround: If a downgrade is required, initiate it from a USB stick |
| PCP-47433 | ERP does not receive sACN levels when patched to new universe using Quick Rack Setup |
| PCP-47431 | Flickwarn doesn't work if "on" event has not occurred before "off" event was configured |
| PCP-47430 | The PCP TimeClock may assert control in unconfigured spaces |
| PCP-47429 | SNTP change can cause TimeClock events not to play |
| PCP-47422 | Time displayed can be incorrect on the UI if time is remotely adjusted by SNTP |
| PCP-47414 | Configuration settings (Station Power and IP) may be lost on upgrade |
| PCP-47410 | Update of Network Option Card may stick displaying 0%
Workaround: Although the update displays 0%, it is still functioning. Wait for the update to complete. |
| PCP-47402 | Noise on the DMX line can cause false indication of activity |
| PCP-47396 | ERP-UL:rapid toggling of manual control can cause mismatch between levels and output state |

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Known Issues Remaining in v3.1.5 (cont.)

- PCP-47385 Settings are not correctly applied to the third pole of a misconfigured 3-pole circuit
- PCP-47381 Relay Mismatch error is not always shown
Workaround: Perform a Quick Rack Setup to ensure relay types installed match
- PCP-47364 Bad DMX connection can cause erroneous levels
- PCP-47359 Levels can not be set using the Web interface if config contains relays assigned to unpatched spaces
- PCP-47353 ERP configured to wrong rack type reports incorrect voltage
- PCP-47345 A firmware update may stall with a freshly partitioned USB drive
Workaround: Force an update by holding down the enter and back buttons during boot and the update will proceed
- PCP-47332 Can set contacts to outputs >24 on an ERP Mains Feed rack
- PCP-47328 Exiting and re-entering file menu may be required for update if USB storage swapped
- PCP-47320 ERP configuration files do not display correctly in Microsoft Edge/Internet Explorer
- PCP-47318 ERP Does Not Match Conductor's Range Of Time Zones
- PCP-47309 When downgrading from v3.1 to a lower version, more spaces than are supported may be shown
Workaround: Reconfigure to use 8 spaces or less if a downgrade is necessary
- PCP-47283 sACN levels can get stuck in arbitration if DHCP lease expires and Network Option Card reboots
- PCP-47267 When firmware is downgraded, configuration will not be maintained
Workaround: Save configuration to file before downgrading and load configuration from file when upgrade is complete.
- PCP-47257 Outputs with Circuit Numbers above 65535 will not have Energy Management Data reported to Paradigm/Conductor
Workaround: If using energy management, ensure all circuit numbers are set below 65536.
- PCP-47223 ERP UI can show non-existent sACN universe on patch screen
- PCP-47213 Sequences running in multiple spaces simultaneously can fall out of sync
- PCP-47209 TimeClock does not support custom DST transition times
- PCP-47187 If other sources are present, Timeclock Flickwarn may not function
- PCP-47101 ERP populated entirely with dimmers will not show missing dimmers in view errors
- PCP-39270 Upgrading from 2.x to 3.x must be done via USB, not from the Web interface
- PCP-38955 Sequence playback from non-timeclock-enabled panel is interrupted by actions from other spaces in timeclock-enabled panel
- PCP-38850 Flickwarn does not occur for events in spaces not otherwise configured for this controller in Arch Setup
Workaround: A local circuit must be patched to the space that flickwarn takes place in
- PCP-38810 After a software downgrade, the TimeClock "When" menu will not work
Workaround: restore defaults.
- PCP-38332 Upgrading from 2.1.0 or below may cause config loss & hang on upgrade
- PCP-35582 Racks running firmware below 2.1.0 must be upgraded to 2.1.0 before upgrading further
- PCP-35289 Rebooting too quickly after a configuration change can cause config loss
Workaround: Wait at least 5 seconds after changing a configuration parameter to reboot.
- PCP-35136 Releasing Set Levels does not shut off output from 0-10V card if no other sources present
- PCP-34085 Configuration will be lost if a rack is downgraded
Workaround: Save configuration to USB before upgrade or downgrade
- PCP-33313 Hot-plugging option cards may cause processor to lock up
Workaround: Do not hot plug or unplug option cards
- PCP-31749 Software update after removing option cards can cause firmware to appear "frozen" as the processor attempts to communicate with the missing option card

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Known Issues Remaining in v3.1.5 (cont.)

- PCP-30872 Timed Events do not stop running sequences
- PCP-28602 Removing USB key while viewing files can cause display problems
- PCP-26854 Events are not reliably saving to USB
- PCP-26405 Sequence does not stop until current step has completed
- PCP-26243 Deactivating preset in LatchLock mode leaves relay on but turns off level indicator
- PCP-26180 Relay Control web page does not automatically update
- PCP-26162 Cannot tell which timed event is active
- PCP-25919 Presets, zones, and sequences do not turn off relays when LatchLock mode is enabled
- PCP-25773 Setting range of levels from web page doesn't work when first address is larger than the second
- PCP-25658 Space combine or lockout status not shown in UI
- PCP-25652 Relay Control screen shows relays in red even after alleviating breaker trip
- PCP-24965 Configuring racks with different sequence types on Echo bus may lead to unexpected results
- PCP-24706 Pressing reset now fully resets attached accessory cards
Workaround: Power cycle the PCP
- PCP-23837 Circuits set to "Latch-Lock" cannot currently be overridden by set levels
- PCP-23824 DALI levels drop to zero during a firmware upgrade
- PCP-23818 DALI output cannot currently be configured to be linked to multi-pole relays
- PCP-23813 Restoring defaults with valid level input in control of relays may result in levels being stuck on
- PCP-23811 Changes to priority of momentary contact input do not take effect until the next change of state by the contact
- PCP-23808 Disabling contact input for a relay while the contact is actively triggering the relay will lock the relay onto the current state
- PCP-23785 Relay may change state during a software upgrade
- PCP-22689 Altering Preset priority briefly causes stations to indicate Off
- PCP-22674 When Network Option Card is not installed, incorrect IP information may be shown
- PCP-22518 ERP outputs a short voltage blip from panic output on reboot
- PCP-22410 Sequence steps are not recorded between hosts on the station bus
- PCP-22306 Resetting or powering off immediately after a configuration change may cause data to be lost
Workaround: Do not reset or power off immediately after a configuration change
- PCP-22134 Station operation may be intermittent for a short period after configuration change
- PCP-22008 Entering a Non-Existent Circuit Number in the Set Levels screen prevents further entries
Workaround: Only enter valid circuit numbers
- PCP-19971 Relay Status Screen sometimes shows "â%%" incorrectly
- ENOC-47263 Patch SLPD issue found in gateways
- ENOC-47236 Network Option Card can reboot during file transfer
- ENOC-47211 Once a link local IP is established, further requests for a DHCP address will not be made
- ENOC-47204 Conductor may not connect on busy networks
- ENOC-47202 Uploading configuration on a busy network can fail
- ENOC-47186 Streaming ACN sources with a priority of 0 are not ignored
- ENOC-47185 Outputs can flicker when multiple sACN sources, in the same universe but with different priorities, are simultaneously acquired
- ENOC-47184 Downloading ERP/EACP configuration freezes sACN levels
- ENOC-47161 Energy management stops working if Conductor time is set back
Workaround: Reboot unit after setting time.

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Known Issues Remaining in Echo Protocol v3.3.4

- EC-47174 Two hosts with the same color temperature zone patched can result in alternating color temperature indication
- EC-47116 Space Toggle button on Inspire station not affected by level of ET channel not patched to zone
- EC-47111 Zone/Preset/Sequence status can "flutter" very occasionally due to a receiving host timer rollover
- EC-47077 Multi-space off button occasionally flashes on when sequence is still playing
- EC-47074 Off actions using timing from an active preset rather than the 2 second standard
- EC-47070 Mobile app shows sequences active for sequences 2-4, not just 1
- EC-47063 Multi-space hosts maintain preset status in previously-patched spaces
- EC-46888 Late joining occupancy sensor controls will assert their configured occupancy action even if associated group was already in occupied state
- EC-45629 Hold event configured with fade time for "set to color" actions fades intensity on hold
- EC-45596 Differing space/zone levels across bridge segments causes station indication to bounce between values
- EC-45462 "Uncombine All" may not uncombine all combined spaces on full Echo bus.
- EC-45202 Editing spaces affected by a Demand Response input momentarily sets spaces to false during true condition
- EC-44495 Products with Power on behavior can show active zone levels and activated Off status at same time
- EC-44432 Manual control from non native space does not trigger occupancy when occupancy action is multi-space
- EC-44154 Occupancy groups, vacancy inhibit, and photo inhibit do not support all spaces of a multi-space action
- EC-43350 Accessing the Config page on multiple simultaneous mobile app connections causes duplicate devices to be listed
- EC-43262 Vacancy action Preset activate can be missed after a grace restore has been triggered due to support for older Occupancy sensors
- EC-43138 On occasion large batches of patch config messages can fail to transmit correctly resulting in skipped addresses
- EC-43020 When two presets are active in the same space, preset indication toggles between both presets
- EC-42572 Unable to toggle sequence off from combined space that does not possess a sequence enabled output product
- EC-38851 Late joining bridge results in oscillating mismatched Zone values if different segments have different values for same zones
- EC-38839 Late joining bridge results in oscillating mismatched statuses if different segments have different status for same spaces
- EC-38694 Zone status does not zero out after last output product for that zone changes to new space
- EC-35126 Space toggle when Zones are not at full sets Zones to 0 rather than all at full
- EC-34543 Sequence indicator toggles state rapidly when output device with sequence active late joins Echo bus with output device that has inactive sequence
- EC-28417 Station activity during sync period following connection of late joining output product incorrectly does not cause LED chase