

# Echoflex Solutions Release Note

## Elaho Expansion Bridge, BACnet and Integration Interfaces

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**Product Line:** Expansion Bridge, BACnet and Integration Interfaces

**Description:** Version 3.3.1 System Software / Firmware

**Expansion Bridge, BACnet and Integration Interfaces  
Components**

Firmware	3.3.1.450
Bootloader	1.0.0.9.0.8
Echo Protocol	3.3.1.0.194
Echo PHY	18.6

**Effective Date:** 2019-12-19

### Purpose

The purpose of this release is to correct a defect and to introduce support for the new Elaho Integration Interface.

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.

### Availability

This firmware is currently available in new shipping units. New versions of firmware can be obtained by contacting Echoflex Solutions Technical Services. Reference [Firmware Upgrade Instructions on page 4](#) for details.

### Documentation

Current documentation includes the Elaho Expansion Bridge Installation Guide, Elaho BACnet Interface Installation Guide, Elaho BACnet PICS Reference Guide, Elaho Integration Interface Installation Guide, the ElahoAccess App integrated help system, and the Unison Paradigm LightDesigner Configuration Software integrated help system.

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



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### Compatibility

For questions regarding compatibility, please contact Echoflex Solutions Technical Services.

### Compatible Elaho Products

This release is interoperable with the following Elaho hardware and software/firmware:

Product	Earliest Device Compatibility	Optimal Feature Compatibility
ElahoAccess Application	v1.0.0	v3.3.0
Elaho Expansion Bridge*	v1.0.0	v3.3.1
Elaho BACnet Interface	v3.0.0	v3.3.1
Elaho Integration Interface	v3.3.1	v3.3.1
ElahoTouch Mk2	v3.0.1	v3.0.1
Elaho DMX Scene Controller	v1.0.0	v2.1.0
Elaho Echoflex Interface**	v1.0.0	v1.1.0
Elaho Contact Input Interface	v1.0.0	v2.0.0
Elaho Contact Output Interface	v1.0.0	v2.0.0
Elaho Demand Response Interface	v2.0.0	v2.0.0
Elaho Responsive Controls	v1.0.0	v3.1.1
Elaho Dual Tech Occupancy and Vacancy Sensors	v1.0.0	v1.1.1
Elaho Dual Tech Switch-mount Occupancy Sensors	v1.0.0	v1.1.1
Elaho Room Controller - Gen2	v1.0.0	v1.0.0
Elaho Room Controller **	v3.0.0	v3.0.0
Elaho Zone Controllers - Gen2	v1.0.0	v3.3.0
Elaho Zone Controllers**	v3.0.0	v3.0.0
Elaho Inspire Stations	v3.0.0	v3.1.0
Elaho Keyswitch Stations	v3.2.0	v3.2.0
Elaho TimeClock	v1.0.0	v2.0.0
Elaho Preset Stations	v3.0.0	v3.1.0
Elaho Relay Panels**	v1.0.0	v3.1.1
*One Expansion Bridge per system.		
**Reference the Controllable Only section on the following page.		

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### **\*\*Controllable Only**

This release of Elaho Expansion Bridge is compatible for control but will not configure the following products:

- Elaho Relay Panel / Relay Panel Feedthrough- version 1.0.0 and later
- Elaho Echoflex Interface - version 1.0.0 and later
- Elaho Zone Controllers - version 1.0.0
- Elaho Phase Adaptive Dimmer - version 1.0.0
- Elaho Room Controller - version 1.0.0

### **Compatible Paradigm Products**

The most recent version of Paradigm software is required for use with this Elaho Expansion Bridge firmware:

- Unison Paradigm Architectural Control Processor - version 4.2.2 and later
- Unison Paradigm LightDesigner Software - version 4.2.2 and later



**Note:** *Reference the individual product release notes for the most recent versions and features.*

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### **Incompatibility**

This release of Elaho Expansion Bridge, Elaho BACnet Interface, and Elaho Integration Interface firmware is incompatible (not controllable and not configurable) with the following products and their related software/firmware versions:

- Elaho Preset Station - earlier than version 2.0.0

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### Firmware Upgrade Instructions

When new ElahoAccess App software is available, you will be notified through the app store of the original purchase. Download updates to the software directly from that app store.

The Expansion Bridge, BACnet Interface, and Integration Interface ships with the current version of firmware installed and will not require an update before use. Existing hardware can be field upgraded using a microSD card. New firmware is available through UpdaterAator software.

### Update Firmware

1. To update the firmware, you must first prepare a compatible microSD card with the firmware update file. The firmware update file, labeled eeb\_fw.efw, must reside on the root of the media.



**Note:** *Compatible cards include SDHC microSD media up to 32GB, formatted to FAT32. SDXC is not compatible.*

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2. Insert the compatible microSD media into the card slot receptacle on the bottom of the unit.



**Note:** *The microSD card must be installed into the card slot with notched edge directed right.*

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3. Use the navigation buttons to navigate and select "Update Firmware" from the menu. A message will prompt, "Insert Media and do not remove until complete. Reboot Now."
4. Press the ✓ (enter) button to begin the firmware update process. The unit will update and reboot when the process is complete.
5. Use the navigation buttons to navigate to the "About" menu to confirm the new installed firmware version.

### Key Enhancements in v3.3.1

- Initial release of the Integration Interface
- Bug fixes

### Key Enhancements in v3.0.0

Using the ElahoAccess App, the following new features are supported:

- Access to configure the BACnet Interface
- Bug fixes

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### Key Enhancements in v2.3.0

Using the ElahoAccess App, the following new features are supported:

- Access to configure new devices including the following:
- Demand Response Interface
- Room Controller - Gen 2
- 600W Phase-Adaptive Dimmer - Gen2
- Relay Controller - Gen2
- SmartSpace Controller - Gen2
- 0-10V Controller - Gen2
- Support for Lockout Stations in Custom mode
- Bug fixes

### Key Enhancements in v2.2.1

- Compatibility with Unison Paradigm software version 4.0
- Adds support for control of Color Tunable White fixture control

### Key Enhancements in v2.2.0

- Using the ElahoAccess App, the following new features are supported
- New zone modes added including Color Temp Mode and Studio Mode
- Supports ElahoAccess App configuration of new features in the DMX Scene Controller
- Supports ElahoAccess App configuration of Multi Space controls and photo preset inhibit
- Bug fixes

### Key Enhancements in v2.1.1

- Optimizations and bug fixes

### Key Enhancements in v2.1.0

- New products added for configuration and control:
- Dual Tech Ceiling-mount Occupancy and Vacancy Sensors
- Dual Tech Wall-mount Occupancy and Vacancy Sensors
- Dual Tech Switch-mount Occupancy Sensor
- Contact Input Interface
- Contact Output Interface
- Bug fixes

### Key Enhancements in v1.0.1

- Support for ElahoAccess naming
- Bug fixes

### Initial Features in v1.0.0

- Integrates monitoring and control from the Unison Paradigm architectural control system to the Elaho control system.
- Enables the ability to combine up to four individual Elaho segments (systems) into a larger system, enabling more control stations, responsive controls, and power and data controllers to be utilized within the Elaho system.
- Provides connectivity to an Elaho system from the ElahoAccess App through a third-party wireless access point.

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### Issues Corrected in v3.3.1

EEB-47080 Devices can be named with strings longer than the 27 character supported limit

### Known Issues Remaining in v3.3.1

- EEB-47089 EII occasionally reports long running relay panel/DMX scene control sequence momentarily stopping and restarting
- EEB-47088 Space off is reported true for spaces with no online output products
- EEB-47082 Enabling syslog doesn't take effect without a device restart
- EEB-47060 Station indication may lag across multiple segments of an EEB
- EEB-47057 EBI accepts multistate present value 19 and above, should reject writes
- EEB-47054 Sending a wink command twice locks Wink Command Received onto UI, must reboot to clear
- EEB-43629 After rapid space or zone slider movements, values can sometimes appear to bounce back to a previous value for a couple seconds
- EEB-43464 Device retains cached zone levels for output devices that go offline
- EEB-42951 Space color can take several seconds to update after control
- EEB-37978 OFF not indicated immediately when pressed with a panel product (EACP, ERP) Sequence in "Bounce" mode is currently active

### Known Issues Remaining in Echo Protocol 3.3.1

- EC-47111 Sync winner can be removed from arbitration if sync message is received at timer rollover (time == 0)
- EC-47077 Multispace 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-47063 Multispace 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-45338 Bus ID does not re-arbitrate if self powered device loses and later regains bus connectivity while remaining powered  
**Workaround:** Power cycle the device after reconnecting to 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 EchoAccess 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-42401 Space Combine Toggle won't uncombine spaces without any host output products