Control Programming LLC

Release Notes

CPLLC Bond Bridge Platform

Version 5.00 · November 14, 2026

Product	CPLLC Bond Bridge Platform (Crestron Home platform)
Version	5.00
Release date	November 14, 2026
Where to find it	Drivers › Platform › Bond Bridge › Bond Bridge Pro
Requires	Crestron Home OS 4.13 or later (the first that draws shades itself), and a Bond Bridge (or Bond Bridge Pro) on the processor's network with its local token
Licensing	A Bond Bridge Platform license key (cpllc.net/product/bond-bridge-platform) or a CPLLC site license key (cpllc.net/product/site-license), entered in the platform's Enter License Key, or a site license key once in the CPLLC License Manager

Overview

The CPLLC Bond Bridge Platform brings the devices on a Bond Bridge into Crestron Home. Bond Bridge is a Wi-Fi to RF bridge for ceiling fans, fireplaces, motorized shades, lights and other RF-remote devices. The installer enters the bridge's IP address and its local token once; the platform reads every device the bridge knows and adds each one to Crestron Home as its own device, with the controls and tile that suit it. The bridge reports every change back to the platform, so Crestron Home follows the devices even when they are run from the Bond app or a remote.

Capabilities

Capability	What it does
Automatic device discovery	Every device on the bridge is read and added to Crestron Home under the name it has in the Bond app, ready to be placed in a room. Nothing has to be entered per device.

Capability	What it does
Ceiling fans	Power, speed, direction and, where the fan has breeze, a Mode list (None, Breeze), as a Crestron Home fan. Speed is a slider from 1 to the fan's highest speed, 5 at most, with + and − below it; a fan with more than five speeds is offered five, spread over its range.
Fireplaces	Flame on and off, flame height and the fireplace's fan, as a Crestron Home fireplace.
Fan and fireplace lights	Each light of a fan or fireplace (its light, up light and down light) is added as a Crestron Home light of its own, named after it ("Living Room Fan Light", "… Up Light", "… Down Light"), with on, off and brightness where the device has it. It joins the room's Lights tile and can be in lighting scenes.
Shades	Open, close and stop, with an auto close timer, as a Crestron Home shade.
Lights	On, off and brightness, as Crestron Home lights in the room's Lights tile.
Generic devices, smart switches and heaters	Power on and off, as a Crestron Home outlet.
Bond groups	A Bond group whose members are all one kind of device (all fans, all shades …) is added as one more device of that kind, so a whole group runs from one tile.
Live feedback	The bridge pushes every state change to the platform (Bond Push UDP), so each tile follows the device at once, whether it was run from Crestron Home, the Bond app or the RF remote. Nothing is polled.
Per-device options	Each device has its own installer options: PIN code, Home and Room screen, whether touching the tile toggles it, an auto off timer, and the tile's icons and text.
Live changes	Debug output turns on and off while the processor runs.

What's New in 5.00

- A shade that has a preset (My) position in Bond has a Shade Go To My Position sequence action.
- A sequence that sets Fan Speed above the speeds the fan is offered now sets its top speed. In the previous build it sent a speed the fan doesn't have.
- A fan's "Mode is …" events are raised only when its mode changes. In the previous build one was also raised every time the driver started.
- Fan speed is now 1 to 5 at most, the speeds Crestron Home's own fan control has. A fan with more speeds is offered five spread over its range (a six-speed fan's 1, 2, 3, 5 and 6); a fan with five or fewer is unchanged. A sequence that set Fan Speed 6 or higher now sets the top speed: set it again.
- A fan's breeze and presets are now one Mode list on its page, as Crestron Home's own fans will have, in place of separate controls: None and Breeze, on a fan that has breeze. Set Mode is its sequence action, and each mode has a "Mode is …" event. Sequences that used Breeze On / Off, Oscillate On / Off or Set Preset are set

up again with Set Mode, and a fan paired before this version has to be removed from its room and paired again.

- An address that nothing answers at is now reported as Invalid IP Address when the settings are applied; before, it was accepted without an error.
- Rebuilt on the CPLLC 5.0 shared libraries and a new Bond Bridge library checked against the Bond Local API, so the fan, fireplace, shade, light and outlet devices work the same way as other CPLLC products.
- Live feedback: the bridge reports every change, so Crestron Home follows devices run from the Bond app or a remote. 4.x tracked the state itself and could fall out of step.
- Lights on the bridge are added as Crestron Home lights, and so is each light of a fan or fireplace, so it can be in the room's lighting scenes.
- Shades are Crestron Home's own (Crestron Home 4.13 and later): Crestron Home's Shades screen, scenes, sequences and shade events, with the position slider for a shade that takes a position, and the installer's transition times for one that can't report it.
- Bond groups of one kind of device are added as devices of their own.
- The IP port is now used (default 80), for a bridge reached through another port.
- The bridge is connected again only when its address, port or token changes.
- Debug output can be turned on and off while the processor runs, without a restart.
- Its own license key, or a CPLLC site license key, licenses the platform by itself, so the CPLLC License Manager is no longer required; it is still the convenient place to enter a site license key once for every CPLLC driver.
- Fireplaces, shades and generic devices have the icon and text fields, with a link to Crestron's icon list, and their auto off can count seconds (Auto Time in Seconds).
- A fan's Auto Off is in minutes only, as on every CPLLC fan: the Fan On w/Auto Off (Seconds) action is gone, so a sequence that used it is set up again with Fan On w/Auto Off.

Installing

Before installing, find the bridge's local token in the Bond app: select the Bond Bridge, open Advanced Settings and note the Local Token.

Version 5.00 upgrades an installed 4.x CPLLC Bond Bridge Platform in place: load the package on the processor and Crestron Home updates the existing driver, keeping its IP address and local token. Check the port on the first page (80 for a Bond Bridge). The license key already entered stays valid; the CPLLC License Manager is not required.

For a new installation, add it from Drivers › Platform › Bond Bridge. Setup first asks for the bridge's IP address and port, then for the options below; enter the license key (or leave it blank on a site with a CPLLC site license) and the local token. Once the options are saved, the bridge's devices appear in Crestron Home, ready to be placed in rooms.

After an upgrade from an earlier 5.00 build, the platform shows Reconfiguration Needed once: open it in Setup (or Configure Pro), check the settings and save. The links on its settings page have new names, which Crestron Home adds on the first Reconfigure; nothing entered is lost.

Fireplaces, shades and generic devices paired by an earlier 5.00 build gain the icon and text fields and Auto Time in Seconds, so each shows Reconfiguration Needed once: open its Installer Settings, press Reconfigure and Next.

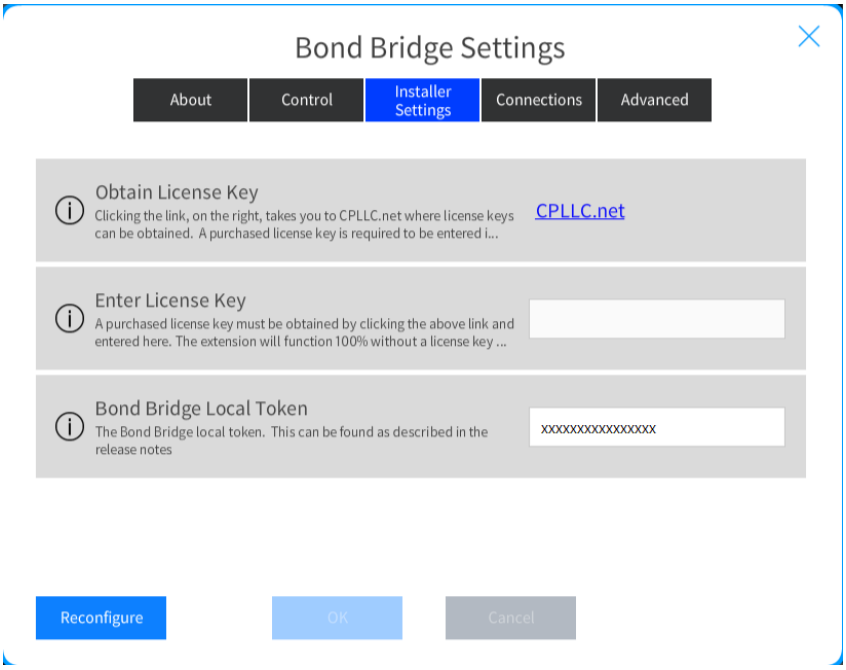
Installer Options

The first page asks for the bridge:

Option	Description
IP Address/Hostname	The Bond Bridge's IP address or hostname (default 10.10.10.10). Give the bridge a fixed address in the router, so it keeps it.
Port	The bridge's HTTP port, 1 – 65535 (default 80, the Bond Bridge's own).

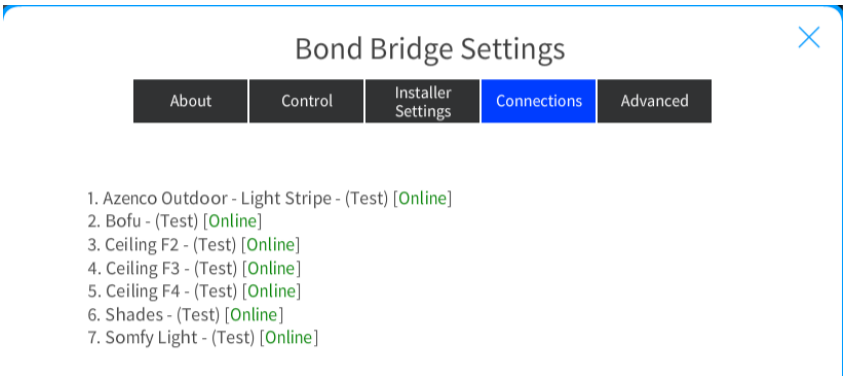
The second page holds the license and the token:

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Bond Bridge Platform license key. Leave blank when the site has a CPLLC site license.
Bond Bridge Local Token	The bridge's local token, from Advanced Settings in the Bond app.



The platform's Installer Settings: the license key and the bridge's local token (masked)

A wrong address or token is reported when the options are saved, and no devices are added. Once the bridge is linked, each device it reported is listed under Managed Platforms › the platform's name in Pair Devices, ready to be added to a room, and the platform's Connections tab shows each device added and whether it is online.



The platform's Connections tab: the bridge's devices, each added to a room and online

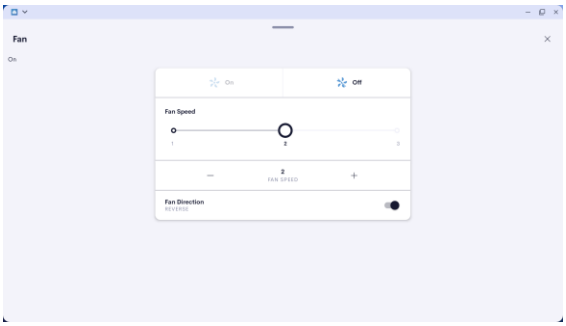
Each device the platform adds has its own options, under that device in Setup. Every fan, fireplace, shade and generic device starts with these; the options of each kind of device are in its own section below:

Option	Description
Show on Home Screen	Shows the device's tile on the Home screen (default off).
Show in Room Screen	Shows the device's tile in its room (default on).
Starting Pin Code	A numeric PIN that must be entered before the device's controls are shown. Blank means no PIN (the default).
Seconds Pin Active	How long the controls stay unlocked after the last touch (default 10 seconds).

Ceiling Fans

A Bond ceiling fan is added as a Crestron Home fan, with power, speed and direction where the fan has them, and a Mode list (None, Breeze) on a fan that has breeze. Touching its tile turns it on or off; its … button opens its page. The speed slider, with + and − below it, runs from 1 to the fan's highest speed, 5 at most, as Crestron

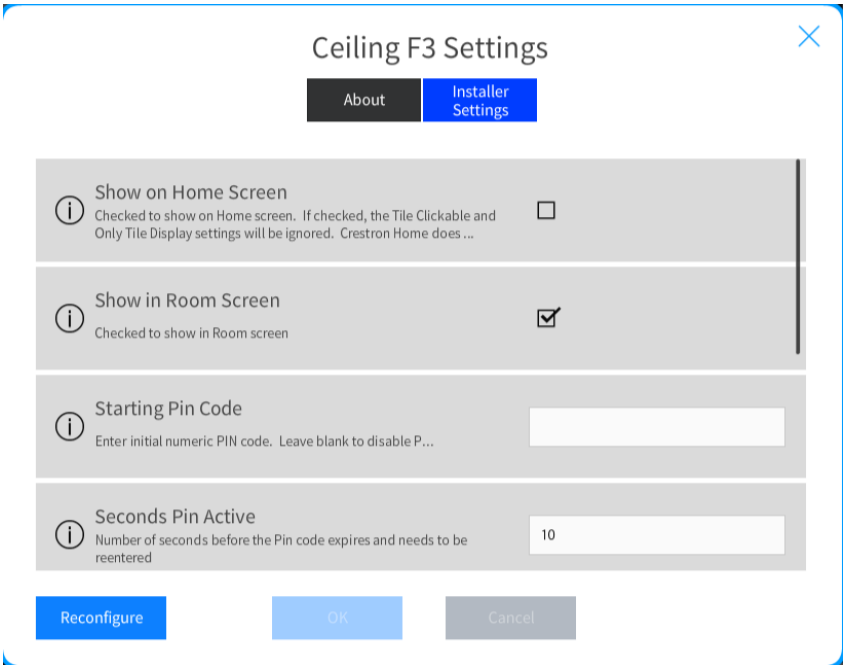
Home's own fans have: a fan with more speeds is offered five, spread over its range (a six-speed fan's 1, 2, 3, 5 and 6).



A three-speed fan

Besides the options every device has, a fan has:

Option	Description
Tile Clickable	Touching the tile turns the fan on or off (default on).
Only Display Tile	Shows the tile alone, with no page of controls (default off).
Auto Enabled	Offers a timer that turns the fan off again.
Maximum Auto Time	The longest time that timer can be set to.



A fan's own Installer Settings

A fan's light kit, up light and down light are lights of their own: see Lights below.

A fan adds these actions and events:

Action	Description
Fan On / Fan Off	Turns the fan on or off, as its tile and its page do.
Fan Toggle	Turns the fan on if it is off, and off if it is on.
Fan On w/Auto Off	Turns the fan on, then off again after the number of minutes given (up to Maximum Auto Time).
Fan Speed	Sets the fan's speed, 1 to its highest, 5 at most (a fan that has speeds).
Set Mode	Puts the fan in one of the modes on its Mode list (a fan that has breeze).
Fan Direction Forward / Fan Direction Reverse	Sets the direction the fan turns (a fan that has a direction).
Fan Feedback On / Fan Feedback Off	Sets the state Crestron Home shows for the fan, without sending it a command.
Extension Enable / Extension Disable	Enables or disables the device. A disabled device shows Disabled and ignores its tile and page.

Event	Description
Fan is On / Fan is Off	The fan turned on or off, from Crestron Home or anywhere else.
Mode is …	The fan entered that mode; one event for each entry of its Mode list.
Extension Enabled / Extension Disabled	The device was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered (with a Starting Pin Code set).

Fireplaces

A Bond fireplace is added as a Crestron Home fireplace: flame on and off, flame height, and the fireplace's fan where it has one. Its options are Tile Clickable (default on), Only Display Tile, Auto Enabled, Auto Time in Seconds and Maximum Auto Time, with the icon and text fields and the Show CH Icons link, which opens Crestron's list of icon names. A fireplace's light is a light of its own: see Lights below.

A fireplace adds these actions and events:

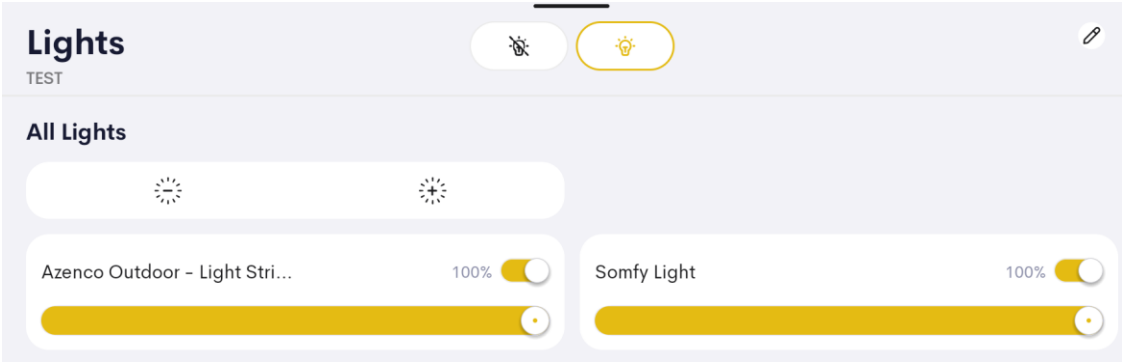
Action	Description
Fireplace On / Fireplace Off	Turns the flame on or off, as the tile and page do.
Fireplace Toggle	Turns it off when on, on when off.
Fireplace On w/Auto Off	Turns it on, then off again after the number of minutes given. Offered when Auto Time in Seconds is off.

Action	Description
Fireplace On w/Auto Off (Seconds)	The same, in seconds (1 to Maximum Auto Time). Offered when Auto Time in Seconds is on.
Flame Height	Sets the flame height (a fireplace that has one).
Fan On / Fan Off	Turns the fireplace's fan on or off (a fireplace with a fan).
Fan Toggle	Turns the fireplace's fan off when on, on when off.
Fan Speed	Sets the fireplace fan's speed (a fan that has speeds).
Fireplace Feedback On / Fireplace Feedback Off	Sets the state Crestron Home shows, without sending a command.
Extension Enable / Extension Disable	Enables or disables the device. A disabled device shows Disabled and ignores its tile and page.

Event	Description
Fireplace is On / Fireplace is Off	The flame turned on or off, from Crestron Home, the Bond app or the remote.
Fan is On / Fan is Off	The fireplace's fan turned on or off (a fireplace with a fan).
Extension Enabled / Extension Disabled	The device was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered (with a Starting Pin Code set).

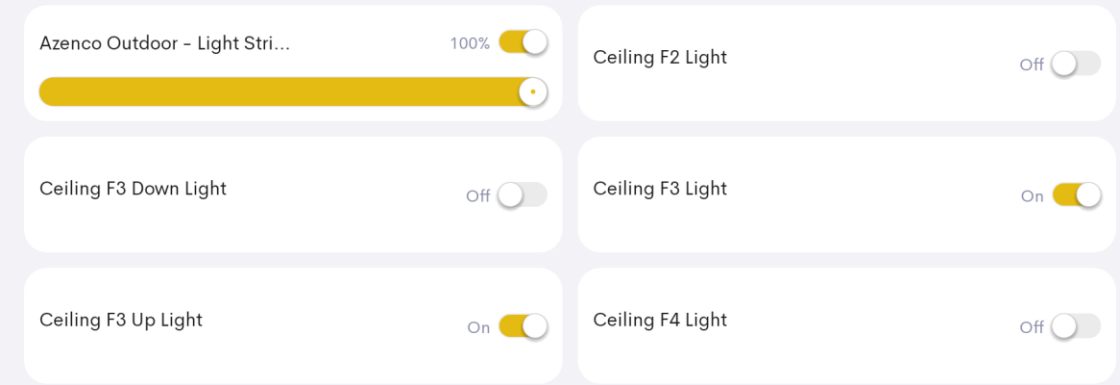
Lights

Bond lights, and each light of a fan or fireplace (its light, up light and down light), are added as Crestron Home lights. They join the room's Lights tile, each with its switch and a brightness slider where it dims, and can be in the room's lighting scenes. A light has no installer options of its own and no page; Crestron Home draws its controls.



Two Bond lights on the room's Lights page

A fan's lights are named after the fan ("Living Room Fan Light", "… Up Light", "… Down Light"). Turning on an up or down light turns on the fan's light power as well, and the bridge's report shows it on both.



A fan's light, up light and down light on the Lights page

A light uses Crestron Home's own light controls in sequences (on, off and brightness, and lighting scenes); the platform adds no actions or events of its own for it.

Shades

A Bond shade is added as Crestron Home's own shade, which Crestron Home 4.13 and later draws itself: it appears in Crestron Home's Shades screen and in its room, with open, Stop and close, its state and the room's All Shades buttons, in scenes and in sequences. The platform adds no tile, page or events of its own for it, and one sequence action: Shade Go To My Position, on a shade that has a preset (My) position in Bond, which Crestron Home's shade has no place for.

A shade whose Bond device takes a position (Bond's SetPosition) also has Crestron Home's position slider, goes to any position from closed (0%) to open (100%), and shows where the bridge reports it is. An RF shade that can't report where it is moves for the installer's transition times instead: it shows Opening or Closing for that long, then Open or Closed, and Stop leaves it where the time puts it. Tilt open and close appear for a shade that tilts.

A shade that can't report its position has these installer options:

Option	Description
Seconds between Fully Closed/Opened	How long the shade takes to open fully (default 5), shown as Opening.
Seconds between Fully Opened/Closed	How long the shade takes to close fully (default 5), shown as Closing.

A shade that reports its position has no installer options of its own.

A shade uses Crestron Home's own shade controls in sequences and scenes (open, close, stop, position) and Crestron Home's own shade events (Opening, Closing, Fully Open, Fully Closed, Position Changed).

Updating from an earlier 5.00 build turns each shade from a CPLLC tile into Crestron Home's own shade: its tile, page and auto close timer go away, and so do its CPLLC actions and events (Shade Open, Shade Close, Shade Open w/Auto Close, Shade is Opened ...). Sequences built on them are set up again with Crestron Home's shade controls and events. Setup asks for the shade's settings again (Reconfigure, then Next).

Generic Devices, Smart Switches and Heaters

A Bond generic device, smart switch or heater is added as a Crestron Home outlet that turns it on and off. Its options are Tile Clickable (default on), Only Display Tile (default on, so it shows as a tile alone), Auto Enabled, Auto Time in Seconds and Maximum Auto Time, with the icon and text fields and the Show CH Icons link.

Each adds these actions and events:

Action	Description
Outlet On / Outlet Off	Turns the device on or off, as the tile does.
Outlet Toggle	Turns the device off when on, on when off.
Outlet On w/Auto Off	Turns it on, then off again after the number of minutes given. Offered when Auto Time in Seconds is off.
Outlet On w/Auto Off (Seconds)	Turns it on, then off again after the number of seconds given (1 to Maximum Auto Time). Offered when Auto Time in Seconds is on.
Outlet Feedback On / Outlet Feedback Off	Sets the state the tile shows, without switching it.
Extension Enable / Extension Disable	Enables or disables the device. A disabled device shows Disabled and ignores its tile and page.
Event	**Description**
Outlet is On / Outlet is Off	It turned on or off, from Crestron Home or anywhere else.
Extension Enabled / Extension Disabled	The device was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered (with a Starting Pin Code set).

Bond Groups

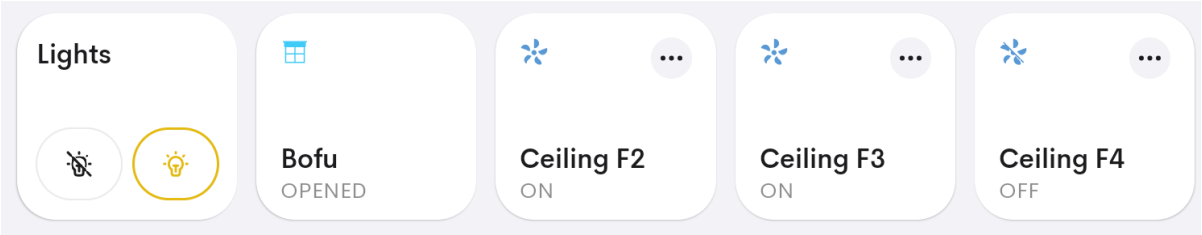
A Bond group whose members are all one kind of device (all fans, all shades …) is added as one more device of that kind, with that kind’s page and options, so a whole group runs from one tile.

Sequences

Each device the platform adds brings the actions and events of its kind of device to Crestron Home sequences, under its name in Customize Actions & Events: on, off and toggle for every device; speed, direction and mode for a fan; flame height for a fireplace. Lights and shades use Crestron Home’s own controls and events instead. Each reports its state changes as events, so a sequence can follow a device run from the Bond app or a remote.

End-User Experience

The platform has no tile of its own. Each Bond device appears in its room as the Crestron Home device of its kind, with the page described in its section above: a fan with its speed and direction, a fireplace with its flame, a shade with Open, Stop, Close and auto close, a light with its brightness, and a generic device as an on/off tile. Each tile shows the device's state as the bridge reports it.



Bond devices in a room: the lights, a shade and three ceiling fans

Without a valid license key or a CPLLC site license, the devices run for a two-hour grace period after the platform starts; then they show License Expired and ignore their controls. Entering a valid key, or adding a site license, clears it without a restart.

Known Limitations

- Bond bidets are not added.
- A Bond group that mixes kinds of devices (fans and lights together) is not added; groups of one kind are.
- A heater is on and off only; its heat level and timer are not used.
- Bond scenes, schedules, timers and top-down/bottom-up shades are not used.
- A light's color temperature and color are reported by the bridge but not shown in Crestron Home yet.
- Some Bond lights have only a few brightness levels: the bridge rounds a level it is sent, and the slider settles on the level the bridge reports (50% or 100% on one RF light strip tested).
- Bond holds what it believes each RF device is doing; a device run by its own wall switch or a remote Bond doesn't hear is not seen.
- Crestron Home shows Stop for every shade; for a shade whose Bond remote has no Stop (Hold) button it does nothing.
- Shades need Crestron Home 4.13 or later: on an earlier version they show no controls.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R, set up with Crestron Home Setup and used from the Crestron Home app on Android, with a Bond Bridge (firmware v4.29.42) on the same network. The platform was added with the bridge's address, port 80 and local token, found all seven devices on the bridge (three ceiling fans, two shades and two lights) and added each to a room. Each fan was turned on and off from its tile and its page and its speed stepped up and down, including a six-speed fan; both shades were closed and opened, and one was opened, stopped part way (it stayed Stopped, with Open and Close both lit) and closed from its page with Enable Stop Button and Auto Enabled checked, then opened with Shade Open w/Auto Close and closed again by itself after 5 seconds; both lights were turned on and off and dimmed; the fans' lights (a light kit, and an up and down light)

were added to the room as lights of their own and turned on and off, with the bridge's reports turning the fan's light on with its up light and both off together. The bridge's push feedback was checked in the debug output, and after the platform was reloaded every device came back with its state and still answered its controls.

Version History

Date	Version	Changes
2026-11-14	5.00	Shade Go To My Position sequence action; built on the latest CPLLC libraries
2026-11-13	5.00	Fan speed 1 to 5 at most; one Mode list for breeze and presets, with Set Mode and an event per mode
2026-11-12	5.00	Invalid IP Address is reported for an address nothing answers at
2026-11-11	5.00	Shades are Crestron Home's own (Crestron Home 4.13 and later): position for a shade that takes one, transition times for one that can't report it; the shade tile, page, auto close, actions and events removed (sequences on them are set up again); on the latest CPLLC shared libraries
2026-11-06	5.00	On the latest CPLLC shared libraries; the License Manager is no longer required; settings page links renamed (one Reconfigure after an upgrade); icon and text fields and Auto Time in Seconds on fireplaces, shades and generic devices; tables of actions and events; fan Auto Off in minutes only (no Fan On w/Auto Off (Seconds) action)
2026-11-03	5.00	• Rebuilt on the CPLLC 5.0 shared libraries • Live feedback from the bridge • Lights, fan and fireplace lights, and Bond groups added as devices • Shade page with Open, Stop, Close and auto close • IP port used (default 80)
2022-04-04	2.00	Minor bug fixes and adjustments required for Hot Fix
2021-12-04	1.00	Resolved issues with libraries
2021-08-17	1.00	Initial release

Support

> **CPLLC Site License**
> A CPLLC site license is one key per processor, entered in the License Manager, that licenses every CPLLC extension and platform on that processor, current and future, so no product needs a key of its own. See the

Site License page. Customers who already own CPLLC license keys can upgrade to a site license on the CPLLC website for the difference.

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Product page	https://cpllc.net/product/bond-bridge-platform/

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