# Control Programming LLC

Release Notes

# CPLLC UniFi PoE Platform

Version 5.00 · November 13, 2026

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| **Product** | CPLLC UniFi PoE Platform (Crestron Home platform) |
| **Version** | 5.00 |
| **Release date** | November 13, 2026 |
| **Where to find it** | Drivers › Platform › UniFi › PoE Switches |
| **Requires** | Crestron Home OS 4.12 or later, and UniFi PoE switches adopted in a UniFi Network application (a UniFi OS console such as a Dream Machine, Cloud Gateway or Cloud Key, or a standalone UniFi Network controller) |
| **Licensing** | A UniFi PoE license key (cpllc.net/product/unifi-poe-switch) 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 UniFi PoE Platform brings the Power over Ethernet ports of Ubiquiti UniFi switches into Crestron Home. The platform logs in to the site's UniFi Network application, finds every UniFi switch adopted there (and any UniFi gateway with PoE ports), and adds each one as a tile, ready to be placed in a room. A switch's tile opens a page listing the ports that power something, each showing whether its power is on; any port can be turned on, turned off or power-cycled from the page or from sequences, to restart the camera, access point or keypad it powers. Changes made in the UniFi app show in Crestron Home as they happen. The platform talks to the console over the local network, with no cloud account.

## Capabilities

| Capability | What it does |
|---|---|
| **Finds every switch** | Every UniFi device with PoE ports adopted in the UniFi Network application is listed in Crestron Home under its UniFi name: switches, and gateways with PoE ports. A switch adopted later is added when it appears. |
| **One tile per switch** | Each switch is a tile of its own, which can be placed in any room. Its page has a row for each PoE port that powers a device, with nothing to type in Setup. |
| **Only powered ports** | A port is listed once it powers something, such as a camera, access point or keypad, and stays listed after that, even while its power is turned off or its device is unplugged, so it can always be turned back on. A reboot keeps the list. Ports that have never powered anything, and ports without PoE, are not shown. |
| **Port names from UniFi** | Each port shows under the name of what is plugged into it: the UniFi device, or the client by its name in UniFi (else its hostname). A port given a name of its own in UniFi shows under that name instead, and one with neither shows as Port and its number. Nothing is typed in Setup, and a rename in UniFi, or another device plugged in, renames the port in Crestron Home at once, its sequences and events included. |
| **On, off and cycle** | Each port is a toggle on the page, on while its power is on, with On or Off under its name (Offline while the console can't be reached): a touch turns the power on or off, and two touches cycle it; the Port Cycle sequence turns the power off and back on after Cycle Seconds to restart the device the port powers. On sets the port's PoE to Auto (Passthrough on a passthrough port), as the UniFi app does. |
| **Live feedback** | The UniFi Network application reports every change as it happens, including changes made in the UniFi app, so nothing is polled. |
| **Sequences** | Port On, Port Off, Port Toggle and Port Cycle, each choosing the port by its name, and for each listed port an event when it turns on and when it turns off. |
| **PIN code** | A PIN can be required before the page's controls work. |
| **Live changes** | Debug output turns on and off while the processor runs. |

## What's New in 5.00

- First release: a Crestron Home platform on the CPLLC 5.0 shared libraries and the CPLLC UniFi Network library.
- Every UniFi device with PoE ports adopted in the UniFi Network application is found by itself, and one adopted later is added when it appears.
- Each switch is its own tile, with a row for each PoE port that powers something, kept while its power is off.

- Each PoE port shows under the name of the UniFi device or client plugged into it (or the port's own UniFi name), and follows a rename made in UniFi, with no port names to enter in Setup. Each listed port has its own events, "Port <port> Turned On" and "Turned Off", and is chosen by name in the Port On, Off, Toggle and Cycle sequences.
- Changes made in the UniFi app show in Crestron Home as they happen.
- Its own license key, or a CPLLC site license key, licenses the platform by itself, so the CPLLC License Manager is not required; it is still the convenient place to enter a site license key once for every CPLLC driver.

## Installing

Before installing, create a local admin for the platform in UniFi OS (Admins & Users, with access to UniFi Network): a Ubiquiti account with two-factor authentication can't log in from a driver. Give the console a fixed address.

Add the platform from Drivers › Platform › UniFi › PoE Switches. The CPLLC License Manager is not required. On the first page, enter the console's address (the port is 443 on a UniFi OS console) and the admin's username and password; on the next, the license key (or leave it blank on a site with a CPLLC site license), and save the options. The platform then logs in and reads the site, and each switch with PoE ports appears under Managed Platforms › the platform's name in Pair Devices, under its UniFi name, ready to be added to a room with its +. The switch's ports need no names in Setup: each port powering a device appears under that device's or client's name, as UniFi shows it; name a client in the UniFi app to change how its port reads.

## Installer Options

The platform's options: the address and login on the first page, then the CPLLC page:

| Option | Description |
|---|---|
| **IP Address / Hostname** | The IP address of the UniFi console (Dream Machine, Cloud Gateway, Cloud Key) or of the standalone controller running UniFi Network. |
| **Port** | Its HTTPS port: 443 on a UniFi OS console (the default), usually 8443 on a standalone controller. |
| **Username** | The username of a local admin of UniFi Network, without two-factor authentication. |
| **Password** | That admin's password. |
| **Obtain License Key** | Opens CPLLC.net, where license keys and site licenses can be purchased. |
| **Enter License Key** | The UniFi PoE license key. Leave blank when the site has a CPLLC site license. |
| **Site** | The UniFi Network site the switches are in: Default (the default) on most consoles. A console with only one site uses that site whatever is entered; with several, enter the site's name as UniFi Network shows it. |

Each switch's options, under that switch in Setup:

| Option | Description |
|---|---|
| **Show on Home Screen** | Shows the switch's tile on the Home screen (default off). |
| **Show in Room Screen** | Shows the switch's tile in its room (default on). |
| **Starting Pin Code** | A numeric PIN that must be entered before the page's controls work. Blank means no PIN (the default). |
| **Seconds Pin Active** | How long the page stays unlocked after the last touch (default 10 seconds). |
| **Cycle Seconds** | How long Cycle leaves a port's power off before turning it on again, 1 to 300 seconds (default 5). |
| **Port names** | None to enter: each port powering a device shows under the name of the UniFi device or client plugged into it, its own name in UniFi, or Port and its number. A port that has never powered anything, or a port without PoE, is left out, with no row, sequence or event. |

## End-User Experience

Each switch is a tile in its room, showing how many of its listed ports are on. Its page lists the ports that power something, each a toggle labelled with its name and On or Off: a touch turns the port's power on or off, two touches cycle it.

Without a valid license key or a CPLLC site license, the tiles 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.

## Sequences

Each switch brings its actions and events to Crestron Home sequences, under its name in Customize Actions & Events. Port On, Port Off, Port Toggle and Port Cycle each list the switch's listed ports to choose from. Each listed port has a "Port <port> Turned On" and a "Port <port> Turned Off" event ("Port Camera Turned On"; a port with no name, "Port 3 Turned On"), raised when its power changes, from the page, a sequence or the UniFi app.

A switch adds these actions:

| Action | Description |
|---|---|
| **Port On / Port Off** | Turns the chosen port's PoE power on or off. |
| **Port Toggle** | Turns the chosen port's power off when on, on when off. |
| **Port Cycle** | Turns the chosen port's power off, then on again after Cycle Seconds, to restart what it powers. |

| Action | Description |
|---|---|
| **Extension Enable / Extension Disable** | Enables or disables the switch's tile. A disabled tile shows Disabled and ignores its page. |

and reports these events:

| Event | Description |
|---|---|
| **Port <port> Turned On / Port <port> Turned Off** | The port's power turned on or off, from the page, a sequence or the UniFi app. |
| **Extension Enabled / Extension Disabled** | The switch's tile 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). |

## Known Limitations

- Turning a port on or off uses the UniFi Network application's own interface, which Ubiquiti does not publish (Ubiquiti's published Network API can only power-cycle a port). A UniFi Network update that changes it can stop the platform until it is updated.
- The login must be a local admin without two-factor authentication; a Ubiquiti account with MFA can't log in.
- A PoE change is saved in UniFi Network as the port's PoE setting, as when it is made in the UniFi app.
- Port names come from UniFi only: a port reads as the device or client plugged into it (or its own UniFi name), so a client without a name in UniFi reads as its hostname or MAC address. When two clients share a port, the UniFi device or a named client wins. A port stays listed once it has powered something; one whose device is gone for good stays until the platform is removed and added again. A port is first listed only while the platform is running, so one powered off at installation appears when it is next turned on in the UniFi app.
- A switch is identified by its MAC address: a replaced switch is found again as a new switch.

## Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R.

## Version History

| Date | Version | Changes |
|---|---|---|
| 2026-11-08 | 5.00 | A port's events start with Port, "Port Camera Turned On" / "Port Camera Turned Off" (were "Camera Turned On"), so they read as the port's in Customize Actions & Events; the event ids are unchanged, so sequences already set up keep their events |

| Date | Version | Changes |
|---|---|---|
| 2026-11-08 | 5.00 | The console’s address, port, username and password on Crestron Home’s standard IP page, the first page in Setup; Setup lists it as a new TCP Client driver, so a platform installed with 5.00.014 is deleted and added again from the PoE Switches row marked TCP Client |
| 2026-11-08 | 5.00 | First release: every UniFi switch with PoE ports found through the UniFi Network application, one tile per switch, listing only the ports that power something, each named after the device or client plugged into it, with no port names to enter in Setup, with their sequences and events and live feedback |

## 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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| **Company** | Control Programming LLC |
| **Contact** | Randy Johnson |
| **Email** | randy@cpllc.net |
| **Website** | https://cpllc.net |
| **Product page** | https://cpllc.net/product/unifi-poe-switch/ |

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