Control Programming LLC

Release Notes

CPLLC UI Shades

Version 5.00 · November 21, 2026

Product	CPLLC UI Shades (Crestron Home extension)
Version	5.00
Release date	November 21, 2026
Where to find it	Drivers › UI Tiles › Control Programming LLC › UI Shades
Requires	Crestron Home OS 4.12 or later, with a Web API token (Configure Pro › Settings › System Control › Rest API)
Licensing	A UI Shades license key (cpllc.net/product/ui-shades), a CPLLC Toolkit license key (cpllc.net/product/toolkit-license) or a CPLLC site license key (cpllc.net/product/site-license), entered in the extension's Enter License Key, or a Toolkit or site license key once in the CPLLC License Manager

Overview

The CPLLC UI Shades is a Crestron Home tile that shows, at a glance, which rooms have shades open. It reads every room and shade from Crestron Home's own REST API, on the processor it runs on or on another one, and lists each room that has shades: the room's row is on while any of its shades is open, and one touch opens or closes all of the room's shades. Each room's page lists its shades, each with its own open / close switch, with All Open and All Close. Sequences open or close a room's shades by name, and each room raises an event when its shades open or close.

Capabilities

Capability	What it does
Rooms from Crestron Home	Every room that has shades or drapes is listed by its Crestron Home name, in alphabetical order, with nothing to name in Configure Pro. Whole House, and any room named in Rooms to Filter Out, is left out.

Capability	What it does
Room open / close from its row	A room's row reads Opened while any of its shades is open at all. Touching it closes all of the room's shades, or opens them all fully.
A page per room	A room's "…" button opens its page: All Open and All Close, then one switch per shade, showing Opened, Closed or Offline. The page's subtitle counts the shades open ("2 of 5 Open").
This processor	The extension reads the processor it runs on; there is no address to enter.
Current and older processors	HTTPS on current processors (CP4-R V2, MC4-R, PC4-R, DIN-AP4-R), and HTTP on older ones (PYNG-HUB, CP3-R, CP4-R V1), chosen by itself.
Tile shows what is open	The tile counts the rooms with shades open ("3 of 12 Open"), with the shades-open icon while any room has a shade open and the shades-closed icon when none does.
PIN code	A keypad must be cleared before the rooms are shown. The PIN can be changed from the keypad, and the rooms lock again after a set time without touches.
Sequence actions	Room Open, Room Close and Room Toggle, each choosing the room by name; enable or disable the tile.
Events	"<room> Shades Opened" and "<room> Shades Closed" for each room; enabled or disabled; PIN locked or unlocked.
Home and room screens	The tile can be shown in its room, on the Home screen, or both, or as a tile alone with no page.
Live changes	Installer options take effect as soon as they are changed in Configure Pro, with no reload; debug output turns on and off while the processor runs.

What's New in 5.00

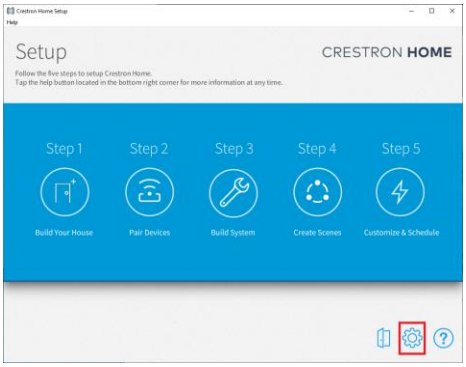
- A setting can now be changed at once while the device it talks to cannot be reached. Before, the change could wait up to 90 seconds behind an attempt to connect, and a reload of the driver could hang.
- Installing no longer reports Invalid Token on a page that comes before the API token has been entered: the processor is contacted only once a token is there.
- A sequence's If (Conditional) step can now test this state: Extension Is Enabled. Crestron Home also lists a "Changed" event for each, raised whenever it changes.
- A Web API Token the processor refuses shows as Invalid Token under it when the settings are saved; before, nothing showed.
- A CPLLC Toolkit license key, one key per processor for every CPLLC toolkit product, now licenses this extension too, entered in its Enter License Key or once in the CPLLC License Manager.

- Installing no longer asks for the processor's address and port: the extension reads the processor it runs on. A copy that was pointed at another processor's address reads its own processor after this upgrade.
- Installing asks one page fewer: the closing "CPLLC License Manager" page is gone, since the License Manager is not required. A copy that is already installed keeps the page in its settings; nothing else changes on an upgrade.
- Rebuilt for Crestron Home 4.x on the CPLLC 5.0 shared libraries, on the same relay list as the CPLLC WattBox and Irrigation tiles, so its page, actions and events work the same way across products.
- Works with current processors: the REST API is reached over HTTPS, as Crestron Home requires on the CP4-R V2, MC4-R, PC4-R and DIN-AP4-R, with HTTP kept for older processors.
- The extension reads the processor it runs on, with no address to enter.
- Each room's page has All Open and All Close, and the page's subtitle counts the shades open.
- Room Open, Room Close and Room Toggle sequences, and "<room> Shades Opened" / "<room> Shades Closed" events.
- A shade that can't be reached shows Offline.
- Polling Seconds (30 to 300; Cycle Seconds before) never reads the processor more often than every 30 seconds, and every touch reads the shades again at once.
- The extension logs in again by itself when Crestron Home ends its session, and logs out when it is removed or reloaded.
- The tile and its pages are built by the extension itself, with no separate UI definition files.
- 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 extension 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.

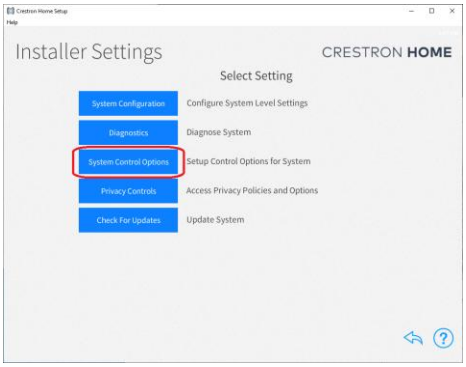
Installing

Version 5.00 is a new driver for Crestron Home 4.x: version 2.x was built on Crestron's original extension SDK. Remove a 2.x UI Shades from its room, then add 5.00 from Drivers › UI Tiles › Control Programming LLC › UI Shades (go back to Pair Devices' Device Types and open Drivers, not a manufacturer list) and enter its settings again. Its sequences and events are new: set up again any sequence that used the 2.x tile.

The extension reads the shades with a Web API token. In Configure Pro, select Settings, then System Control, then Rest API, and Update Token; copy the token into the extension's Web API Token. Enter the token of the processor whose shades the tile shows.



The gear opens Installer Settings



System Control Options holds Web API Settings

Installer Options

The extension reads the processor it runs on, so there is no address page: only the CPLLC options.

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The UI Shades license key. Leave blank when the site has a CPLLC Toolkit or site license.
Show on Home Screen	Shows the tile on the Home screen (default off).
Show in Room Screen	Shows the tile in its room (default on).
Starting Pin Code	A numeric PIN that must be entered before the rooms are shown. Blank means no PIN (the default). A new Starting Pin Code replaces a PIN changed from the keypad, so a forgotten PIN can be reset here.
Seconds Pin Active	How long the rooms stay unlocked after the last touch (default 10 seconds; 0 also means 10).
Only Display Tile	Shows the tile alone: touching it opens no page (default off).
Web API Token	The Web API token from Configure Pro (Settings › System Control › Rest API › Update Token) of the processor named on the first page. Required.
Rooms to Filter Out	Comma-separated names of rooms not to show, in any case (e.g. Garage, Pool House). Whole House is never shown.
Polling Seconds	Seconds between each read of the shades, 30 to 300 (default 60). A touch on the tile's page reads them at once.

Option	Description
Display IDs	Shows each room's and shade's Crestron Home id after its name, e.g. "Living Room (12)" (default off). For troubleshooting.

Sequences

The UI Shades tile adds these actions to Crestron Home sequences.

Action	Description
Room Open	Opens all the shades of the room chosen by name (room) fully.
Room Close	Closes all the shades of the room chosen by name.
Room Toggle	Closes the room's shades while any is open, otherwise opens them all.
Extension Enable / Extension Disable	Enables or disables the tile. A disabled tile shows Disabled and its rooms and shades can't be moved.

The UI Shades tile reports these events, under its name in Customize Actions & Events.

Event	Description
<room> Shades Opened	The first shade in the room opened, from the tile, a sequence, a keypad or anything else that moved it.
<room> Shades Closed	The last shade open in the room closed.
Extension Enabled / Extension Disabled	The tile was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered.
Extension Is Enabled Changed	Crestron Home's own event for each of the states a sequence can test, raised whenever that state changes.

A sequence's If (Conditional) step can test these states:

State	Description
Extension Is Enabled	True while the extension is enabled, False while it is disabled.

End-User Experience

The tile counts the rooms with any shade open, as "n of m Open", with the shades-open icon while a room has a shade open and the shades-closed icon when none does. Touching the tile opens the Shades page: a row per room, in alphabetical order, Opened while any of its shades is open. Touching a row closes all of the room's shades, or opens them all. The row's "…" button opens the room's page: the room's name as its title, how many shades are open below it, All Open and All Close, and a switch per shade. A shade that can't be reached shows Offline.

Shades moved elsewhere (a keypad, a scene, the Crestron Home app) show on the tile at the next poll, at most Polling Seconds later. Changes made from the tile show at once.

Without a valid license key or a CPLLC site license, the tile runs for a two-hour grace period after it starts; then it shows License Expired with an alert icon, and the rooms do nothing. Entering a valid key, or adding a site license, clears it without a restart.

With a Starting Pin Code set, the tile and the page first show a keypad. A wrong PIN keeps the keypad; entering the PIN and pressing Enter shows the rooms. Change Pin opens a second keypad where a new PIN is entered, then kept with Save or dropped with Cancel. The keypad returns once Seconds Pin Active has passed with no touches.

Known Limitations

- Crestron Home's REST API sends no change notices, so shades moved elsewhere show at the next poll (every 30 seconds at the fastest).
- Open and close only: All Open and a shade's switch open it fully or close it; a shade part way open is shown as Opened, and no position is set.
- Up to 50 rooms, and up to 50 shades on a room's page.
- A room's individual shades have no sequences or events of their own; the room's do.
- The room sequences find a room by its name, so two rooms with the same name both run the first one.
- Rooms and shades are read when the settings are applied: a room or shade added later shows after the extension is reloaded (Reload Driver in Configure Pro).
- Crestron publishes the REST API as current to Crestron Home 3.021; it is the same API in 4.x.
- Version 5.00 has not been tried with real shades: CPLLC's lab processor has none. It follows Crestron's published REST API and is built the same way as the CPLLC UI Lights; please report any problem to support.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R.

Version History

Date	Version	Changes
2026-11-21	5.00	• States for a sequence's If (Conditional) step, each with a Changed event • No Invalid Token error before the API token has been entered • A settings change no longer waits while the device cannot be reached
2026-11-18	5.00	A refused Web API token shows under its field
2026-11-17	5.00	Licensed by a CPLLC Toolkit license key too

Date	Version	Changes
2026-11-12	5.00	• No address page: the extension reads the processor it runs on • Installing no longer shows the closing CPLLC License Manager page
2026-11-08	5.00	• Rebuilt for Crestron Home 4.x on the CPLLC 5.0 shared libraries • HTTPS for current processors, HTTP kept for older ones • Processor address and port on the first page, 127.0.0.1 to start • All Open / All Close on each room's page • Room Open / Close / Toggle sequences; <room> Shades Opened / Closed events • Offline shades shown • Polling Seconds, 30 to 300 • Logs in again by itself, logs out on removal • UI built by the extension; no UI definition files • Live debug on and off • License Manager no longer required
2023-04-04	2.00	Rooms and shades feedback for Crestron Home 3.x

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.

CPLLC Toolkit License

A CPLLC Toolkit license is one key per processor that licenses every CPLLC toolkit product on that processor (the UI tiles and lists, virtual devices, Wildcards, Logic and the other toolkit products), entered once in the License Manager or in any one of them. See the Toolkit License page. A site license already includes it, and a Toolkit license can be upgraded to a site license on the CPLLC website for the difference.

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Product page	https://cpllc.net/product/ui-shades/

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