Control Programming LLC

Release Notes

CPLLC Alarm Clock

Version 5.00 · November 25, 2026

Product	CPLLC Alarm Clock (Crestron Home extension)
Version	5.00
Release date	November 25, 2026
Where to find it	Drivers › Date-Time › Control Programming LLC › Alarm Clock
Requires	Crestron Home OS 4.12 or later; no internet access or account needed
Licensing	An Alarm Clock license key (cpllc.net/product/alarm-clock), 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 Alarm Clock runs a Crestron Home sequence at a time of day the homeowner sets from the app: open the bedroom shades, bring up the lights or start the music in the morning, or turn things off at night. Its page sets the hour and minute, in 12-hour time with AM and PM or in 24-hour time, and Set arms the alarm. At the set time it raises Alarm Expired, which the installer ties to a sequence, and disarms until it is set again. Sequences can set the time and arm or cancel the alarm too.

Capabilities

Capability	What it does
Alarm time	The hour and minute, set on the page or by a sequence.
12 or 24 hour	The hour from 1 to 12 with AM and PM buttons, or from 0 to 23 with Show as Military Time.

Capability	What it does
Set and Cancel	Set arms the alarm for the next time the clock reads the set time; Cancel disarms it. A touch on the tile does either.
One shot	At the set time it raises Alarm Expired and disarms until it is set again.
Exact time	The alarm runs at its minute from the processor's clock; nothing is polled. Changing the time while it is armed moves the alarm to the new time.
Survives a restart	The time, and whether it is armed, come back after the processor restarts or the extension reloads.
Sequence actions	Alarm Start, Alarm Stop, Set Hours, Set Minutes, and Extension Enable / Disable.
Home and room screens	The tile can be shown in its room, on the Home screen, or both.
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 valid license is no longer refused after a processor restart when the processor's network address was not readable yet, and the license is checked once more before the grace period ends.
- 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 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 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 on the Crestron Home SDK V2 and the CPLLC 5.0 shared libraries, replacing the Alarm Clock for Crestron Home OS3.
- The tile shows the alarm time while it is armed (Set for 6:30 AM).
- Changing the hour or minute while the alarm is armed moves it to the new time; in OS3 it still went off at the old one.
- In 12-hour time the hour runs from 1 to 12 (OS3 showed 0 for 12 o'clock), and the Set Hours and Set Minutes sequences take 0 to 23 and 0 to 59 (OS3 offered 1 to 24 and 1 to 60).
- Alarm Stopped is raised only when the alarm is cancelled; when it goes off, Alarm Expired alone is raised.
- The standard Extension Enable and Extension Disable actions and events take the place of OS3's Alarm Enable and Alarm Disable. Disabling cancels an armed alarm.
- 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 replaces the Alarm Clock for Crestron Home OS3, which was built on Crestron's original extension SDK: its options, actions and events don't carry over. Add the new version and move the sequences to its events: OS3's Alarm Expired to Alarm Expired, Alarm Enabled and Alarm Disabled to Extension Enabled and Extension Disabled.

Add it from Drivers › Date-Time › Control Programming LLC › Alarm Clock and enter its license key (or leave it blank on a site with a CPLLC site license). Then add a sequence to Alarm Expired under its name in Customize Actions & Events.

Installer Options

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Alarm Clock 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). A tile on the Home screen opens the page; a touch doesn't arm or cancel the alarm there.
Show in Room Screen	Shows the tile in its room (default on).
Show as Military Time	Shows the hour from 0 to 23, with no AM and PM buttons (default off).

Sequences

The Alarm Clock adds these actions to Crestron Home sequences.

Action	Description
Alarm Start	Arms the alarm for the next time the clock reads the set time, as Set does.
Alarm Stop	Cancels the alarm, as Cancel does.
Set Hours	Sets the alarm's hour, 0 to 23 (24-hour time, whichever way the page shows it).
Set Minutes	Sets the alarm's minute, 0 to 59.
Extension Enable / Extension Disable	Enables or disables the tile. Disabling cancels an armed alarm; a disabled tile shows Disabled and ignores the page and the other actions.

The Alarm Clock reports these events, under its name in Customize Actions & Events.

Event	Description
Alarm Started	The alarm was armed, by Set, a touch on the tile or Alarm Start.

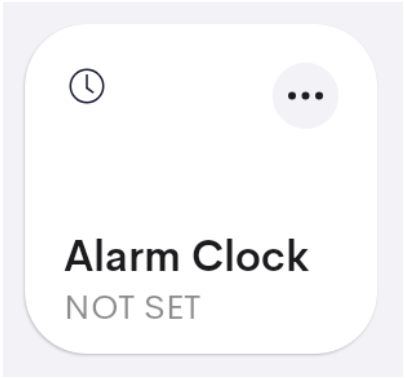
Event	Description
Alarm Expired	The set time came. The alarm disarms.
Alarm Stopped	The alarm was cancelled, by Cancel, a touch on the tile, Alarm Stop or Extension Disable.
Extension Enabled / Extension Disabled	The tile was enabled or disabled.
Extension Is Enabled Changed	Crestron Home's own event for each of the states a sequence can test, raised whenever that state changes.

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

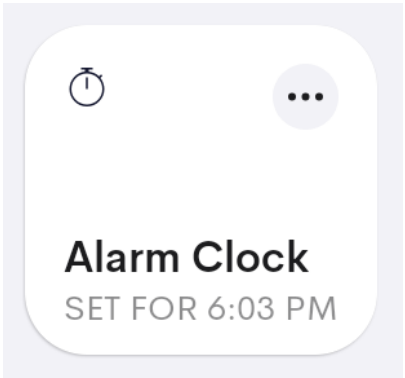
State	Description
Extension Is Enabled	True while the extension is enabled, False while it is disabled.

End-User Experience

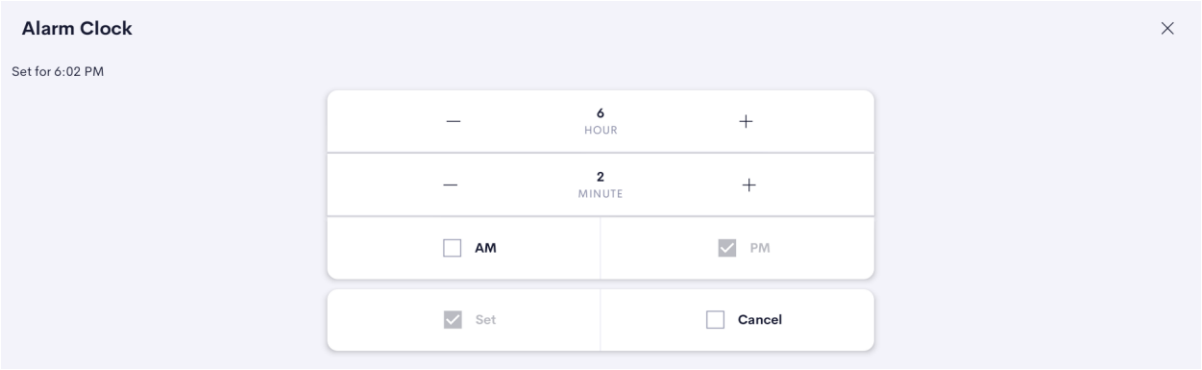
The tile shows a clock and Not Set, or a timer and the alarm time while it is armed (Set for 6:30 AM). A touch on the tile in its room arms or cancels the alarm; the dots in its corner open the page. The page has the hour and minute with minus and plus buttons, AM and PM (unless Show as Military Time is on), and Set and Cancel.



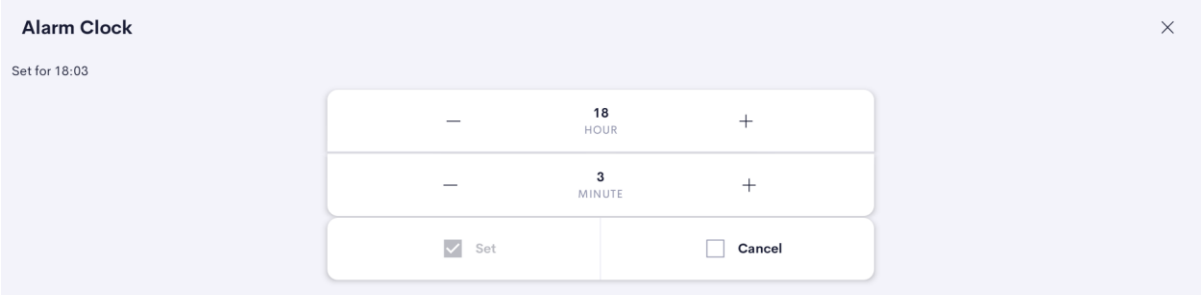
The tile with no alarm set



The tile while the alarm is armed

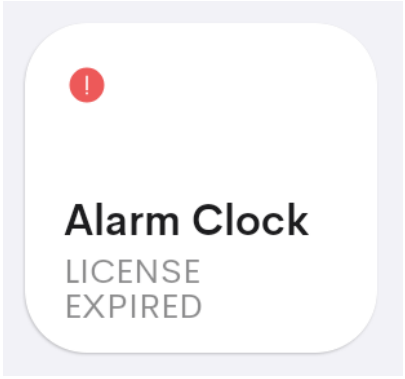


The page in 12-hour time, armed for 6:02 PM



The page with Show as Military Time on

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 alarm doesn't run. Entering a valid key, or adding a site license, clears it without a restart.



The tile after the grace period without a license

Known Limitations

- The alarm runs at the processor's clock, so its time and time zone must be the house's. If the clock is set forward past the alarm time, the alarm runs then.
- It is one alarm that goes off once: to wake every weekday, a sequence (a Crestron Home schedule, or Alarm Expired itself) runs Alarm Start again.
- If the processor is down at the set time, the alarm doesn't run late: when it comes back it is armed for the same time the next day.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R.

Version History

Date	Version	Changes
2026-11-25	5.00	License checks more forgiving at startup
2026-11-21	5.00	States for a sequence's If (Conditional) step, each with a Changed event
2026-11-17	5.00	Licensed by a CPLLC Toolkit license key too
2026-11-12	5.00	Installing no longer shows the closing CPLLC License Manager page
2026-11-08	5.00	Initial release for Crestron Home OS4
2023-04-04	2.00.006	Alarm Clock for Crestron Home OS3: added the required driver JSON fields
2022-07-29	2.00.001	Alarm Clock for Crestron Home OS3: 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.

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/alarm-clock/

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