Control Programming LLC

Release Notes

CPLLC Pentair IntelliCenter

Version 5.00 · November 21, 2026

Product	CPLLC Pentair IntelliCenter (Crestron Home extension)
Version	5.00
Release date	November 21, 2026
Where to find it	Drivers › Pool Controller › Pentair › IntelliCenter
Requires	Crestron Home OS 4.12 or later, and a Pentair IntelliCenter control system (i5P, i7P, i8PS or i10PS) on the processor's network
Licensing	A Pentair IntelliCenter license key (cpllc.net/product/pentair-intellicenter) or a CPLLC site license key (cpllc.net/product/site-license), entered in the extension's Enter License Key, or a site license key once in the CPLLC License Manager

Overview

The CPLLC Pentair IntelliCenter extension brings a Pentair IntelliCenter pool and spa control system into Crestron Home as a tile with a page of its own. The page has a switch for each pool's and spa's filter pump, each light, light show and feature, each heater's setpoint and heat mode, the color or show of IntelliBrite, MagicStream and GloBrite lights and the IntelliChlor's output, and the water and air temperatures, pumps, IntelliChlor and IntelliChem readings below them. Every control has its sequence actions and events. It talks to the IntelliCenter directly on the home network, and the IntelliCenter reports every change as it happens, so the page follows the pool equipment at once, whether it was changed from Crestron Home, the IntelliCenter panel, the Pentair Home app or a schedule.

Capabilities

Capability	What it does
Tile and page	A tile showing the first heater's water temperature and setpoint ("84°F, set 86°F Heating"), and a page with a control for every setting the system has. The controls appear the first time the IntelliCenter answers and are there from then on, also while it can't be reached.
Pools and spas	Every body of water the IntelliCenter has, under its own name, as a pool or a spa.
Filter pump	Turns each pool or spa on and off (its circulation), as the IntelliCenter's own Pool and Spa buttons do.
Heater	Each pool's and spa's heat setpoint, its water temperature, whether it is heating, and its heat mode (Off, Heater, Solar Only, Solar Preferred, UltraTemp or another heat pump, MasterTemp ... as the system's heaters allow). Without a heater the water temperature alone is shown.
Pool lights	Each light on and off, and the color or show of IntelliBrite, MagicStream and GloBrite lights (SAm, Party, Romance, Caribbean, American, Sunset, Royal, Blue, Green, Red, White, Magenta). SAm, ColorLogic and ColorCascade lights turn on and off. Light shows turn on and off.
Features	Every circuit the IntelliCenter marks as a feature (a water feature, cleaner, blower, landscape lights ...) turns on and off.
Pumps	Each pump's state, speed (rpm), flow (gpm, for pumps that report it) and power (watts). The IntelliCenter runs the pumps for the pools, spas and features they serve.
Sensors	The air temperature and, where installed, the solar temperature.
IntelliChlor and IntelliChem	The chlorinator's output (0 to 100 %), which can be set, and its salt level; the IntelliChem's pH and ORP.
Push feedback	The IntelliCenter reports every change itself; nothing is polled.
Sequences and events	An action and an event for every control, and Pool Offline / Pool Online.
Finds the IntelliCenter	Leave the address blank and the extension finds the IntelliCenter on the processor's network.
Live debug	Debug output turns on and off while the processor runs.

What's New in 5.00

- 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.

- The pool system now has its own tile and page, so it runs on Crestron Home 4.12 and later instead of waiting for 4.14: a switch, drop-down or slider for every setting, with an action and an event for each, and the readings listed below them. The tile's options (Home and Room screen, Only Display Tile, PIN) are new: check them in Configure Pro after upgrading.
- The tile shows the device offline when it can't be reached, and online again as soon as it answers.
- First release: a Pentair IntelliCenter as Crestron Home's own pool controller, for the Crestron Home versions that draw pool controllers themselves (4.14 and later).
- Pools and spas with their filter pump and heater; lights, light shows, features, pumps, sensors, IntelliChlor and IntelliChem as parts of the pool system.
- Every change on the IntelliCenter is shown at once, without polling.
- Debug output can be turned on and off while the processor runs, without a restart.

Installing

Give the IntelliCenter a fixed IP address (a DHCP reservation on the router), so the extension always finds it at the same place. Load the package on the processor, then add it from Drivers › Pool Controller › Pentair › IntelliCenter. Enter the IntelliCenter's IP address on the first page (port 6681, the IntelliCenter's own), or leave the address blank to have the extension find it on the processor's network. Name it, put it in a room and enter its license key (or leave it blank on a site with a CPLLC site license). Its pools and spas appear under it once the IntelliCenter has answered.

Installer Options

Option	Description
IP Address / Hostname	The IntelliCenter's address. Leave blank to find it on the processor's network (the same subnet only).
Port	6681, the IntelliCenter's own port. Change it only if the IntelliCenter is reached through another port.
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Pentair IntelliCenter license key. Leave blank when the site has a CPLLC 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).
Only Display Tile	Shows the tile alone, with no page of controls (default off).
Starting Pin Code	A numeric PIN that must be entered before the page opens. Blank means no PIN (the default).
Seconds Pin Active	How long the page stays unlocked after the last touch (default 10 seconds).

Sequences

The pool system's actions and events are under its name in Customize Actions & Events. Each control has its own, named after the body or circuit as the IntelliCenter names it, so which ones a system has depends on its equipment (the names below are examples). An event is raised when its condition changes, not for the state the system is in when the extension starts.

The actions:

Action	Description
Pool Filter On / Pool Filter Off	Turns a pool or spa on or off (its circulation); the same for each light, light show and feature (Spa Light On, Waterfall Off ...).
Set Pool Heater Setpoint °F	A body's heat setpoint, in the system's own scale.
Set Pool Heater Heat Mode	A body's heat mode, from the modes its heaters allow (Off, Heater, Solar Only ...).
Set Pool Light Effect	The color or show of an IntelliBrite, MagicStream or GloBrite light.
Set IntelliChlor Output %	The chlorinator's output, 0 to 100 %.
Extension Enable / Extension Disable	Enables or disables the device. A disabled device shows Disabled, ignores its controls and raises no events.

The events:

Event	Description
Pool Filter On / Pool Filter Off	A body, light, light show or feature turned on or off.
Pool Heater Heat Mode is <mode>	A body's heat mode changed.
Pool Light Effect is <color or show>	A light's color or show changed.
Pool Offline / Pool Online	The IntelliCenter can't be reached; it can again.
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).
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 the first heater's water temperature and setpoint, with Heating while it heats, or Offline while the IntelliCenter can't be reached. A touch opens the page: the drop-downs (heat modes, light colors), a switch for each body, light and feature, the setpoint and chlorinator sliders, and below them each body's temperature, the pumps, the air and solar temperatures, the salt level and the IntelliChem's readings.

When the IntelliCenter can't be reached, the controls are greyed out and the tile shows Offline; it comes back by itself when it can.

Without a valid license key or a CPLLC site license, the pool system runs for a two-hour grace period after the extension starts; then it goes offline. Entering a valid key, or adding a site license, brings it back without a restart.

Known Limitations

- Crestron Home 4.14 will draw pool controllers itself. Until that can be tested, the pool system has CPLLC's own tile and page; a later version will move it to Crestron Home's own pool controls.
- Not yet tested with a real IntelliCenter: this release was tested against a simulated panel speaking the IntelliCenter's protocol.
- Equipment added to the system later appears after the extension is reloaded.
- Pentair publishes no documentation of the IntelliCenter's local protocol. The extension uses the protocol the IntelliCenter's own web client, the Pentair Pool app and the open-source integrations use; a Pentair firmware update that changes it can stop the extension until it is updated.
- Pumps are shown, not controlled: the IntelliCenter runs them for the pools, spas and features they serve.
- Not included: schedules, circuit groups, valves, pool covers, a heat pump's cooling setpoint, the IntelliChem's setpoints, the chlorinator's spa output and vacation mode.
- Leaving the address blank finds an IntelliCenter on the processor's own subnet only; on another subnet, enter its address.

Test Environment

Crestron Home 4.013.0171 on a DIN-AP4-R, set up through its setup API, against a simulated IntelliCenter (CPLLC's own, speaking the panel's protocol: a pool and a spa, gas and solar heat, an IntelliBrite and a GloBrite light, a feature, a light show, a variable-speed pump, the air and solar sensors, an IntelliChlor and an IntelliChem). Every control appeared with its name on the first connection; every action reached the panel (bodies, lights and features on, setpoint, heat mode, light color, chlorinator output), the page followed the panel's changes (heating, the pump running), the tile went Offline when the panel stopped and back Online when it returned, and after a reload every control was still there. Not yet run against a real IntelliCenter.

Version History

Date	Version	Changes
2026-11-21	5.00	States for a sequence's If (Conditional) step, each with a Changed event

Date	Version	Changes
2026-11-20	5.00	On a first install the page's controls, actions and events are all there at once, without a reload
2026-11-20	5.00	GloBrite, SAm, ColorLogic and ColorCascade lights and heat-pump heaters, as the Pentair Pool app knows them; every control named on the first connection; tested against a simulated panel
2026-11-20	5.00	On its own tile and page, with an action and an event for every control: runs on Crestron Home 4.12 and later
2026-11-19	5.00	Devices show offline when they can't be reached, and online again when they answer
2026-11-18	5.00	On sale ahead of Crestron Home 4.14: needs Crestron Home OS 4.14 or later
2026-11-18	5.00	Initial release on the Crestron Home pool controller model

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/pentair-intellicenter/

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