Control Programming LLC

Release Notes

CPLLC Balboa Spa

Version 5.00 · November 21, 2026

Product	CPLLC Balboa Spa (Crestron Home extension)
Version	5.00
Release date	November 21, 2026
Where to find it	Drivers › Pool Controller › Balboa › BWA Wi-Fi
Requires	Crestron Home OS 4.12 or later, and a spa with a Balboa BP-series control and its bwa Wi-Fi module (50350, the module the Balboa Worldwide App uses) on the processor's network
Licensing	A Balboa Spa license key (cpllc.net/product/balboa-spa) 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 Balboa Spa extension brings a hot tub with a Balboa control and the bwa Wi-Fi module into Crestron Home as a tile with a page of its own. The page has a switch for each jets pump, the blower, each light, the mister, each auxiliary output and Hold, Low and High for a two-speed pump, the heater's setpoint, its Ready or Rest mode and its Low or High range, and the water temperature, heating state, filter cycle and circulation pump below them. Every control has its sequence actions and events. It talks to the spa's Wi-Fi module directly on the home network, and the spa reports its state several times a second, so the page follows the spa at once, whether it was changed from Crestron Home, the spa's own panel or the Balboa app.

Capabilities

Capability	What it does
Tile and page	A tile showing the water temperature and setpoint (“101°F, set 104°F Heating”), and a page with every control the spa has. The controls appear the first time the spa answers and are there from then on, also while it can’t be reached.
Heater	A slider for the setpoint, kept to the current range’s limits as the spa reports them, and drop-downs for the heat mode (Ready or Rest; Ready in Rest is shown as the spa reports it) and the temperature range (Low or High). The water temperature and whether it is heating (Idle, Heating, Heat Waiting) are listed below.
Pumps	A switch for each jets pump the spa has, up to eight; a two-speed pump also offers Off, Low and High.
Blowers	A switch for each blower, up to two, and its speed where it has more than one.
Lights	A switch for each spa light.
Mister and auxiliary outputs	A switch for each mister (up to three) and each Aux output the spa has.
Filter and circulation pump	Listed below the controls: whether a filter cycle is running, and which one, and whether the circulation pump runs. The spa runs both on its own schedule.
Hold	A switch for the spa’s Hold, which keeps the pumps and heater off for maintenance.
Clock	The spa’s clock is kept on the processor’s time, so its filter cycles run when they should.
Push feedback	The spa reports its state itself; nothing is polled.
Sequences and events	An action and an event for every control, and Spa Offline / Spa Online.
Finds the spa	Leave the address blank and the extension finds the spa on the processor’s networks.
Live debug	Debug output turns on and off while the processor runs.

What’s New in 5.00

- First release: a Balboa spa on its own tile and page, on Crestron Home 4.12 and later.
- A switch for each pump, the blower, each light, the mister, each auxiliary output and Hold, each only when the spa has it; the heater’s setpoint, heat mode and range; the rest of the spa’s state listed below them.
- An action and an event for every control, and Spa Offline / Spa Online.
- Every change on the spa is shown at once, without polling, and the spa’s clock is kept on the processor’s time.

- Debug output can be turned on and off while the processor runs, without a restart.

Installing

Give the spa's Wi-Fi module 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 › Balboa › BWA Wi-Fi. Enter the module's IP address on the first page (port 4257, the module's own), or leave the address blank to have the extension find the spa on the processor's networks. Name it, put it in a room and enter its license key (or leave it blank on a site with a CPLLC site license). The page's controls appear once the spa has answered; make the sequences that use them after that.

Installer Options

Option	Description
IP Address / Hostname	The spa's Wi-Fi module's address. Leave blank to find the first spa on the processor's networks.
Port	4257, the module's own port. Change it only if the module is reached through another port.
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Balboa Spa 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 spa's actions and events are under its name in Customize Actions & Events. Each control has its own, named after it, so which ones a spa has depends on its equipment (the names below are for a spa with two pumps). An event is raised when its condition changes, not for the state the spa is in when the extension starts.

The actions:

Action	Description
Pump 1 On / Pump 1 Off	Turns a pump on (at its highest speed) or off; the same for each pump, Blower, Light (or Light 1, Light 2), Mister, Aux 1 .. and Hold.

Action	Description
Set Pump 1 Speed	Off, Low or High, for a two-speed pump; Set Blower Speed for a blower with more than one speed.
Set Spa Heater Setpoint °F	The setpoint, in the spa's own scale (°C when its panel is set to Celsius).
Set Spa Heater Heat Mode	Ready or Rest.
Set Spa Heater Range	Low or High.
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
Pump 1 On / Pump 1 Off	A pump started or stopped; the same for each pump, Blower, Light, Mister, Aux and Hold.
Pump 1 Speed is Off / Low / High	A two-speed pump's (or the blower's) speed changed.
Spa Heater Heat Mode is Ready / Rest	The heat mode changed.
Spa Heater Range is Low / High	The temperature range changed.
Spa Offline / Spa Online	The spa 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).

End-User Experience

The tile shows the water temperature and the setpoint, with Heating while the spa heats, or Offline while it can't be reached. A touch opens the page: the heater's drop-downs and setpoint, a switch for each pump, light and output, and below them the water temperature and heating state, the filter cycle and the circulation pump.

When the spa 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 spa 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 spa 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 spa: this release was tested against a simulated spa speaking the Wi-Fi module's protocol.
- Equipment added to the system later appears after the extension is reloaded.
- Balboa publishes no documentation of the Wi-Fi module's local protocol. The extension uses the protocol the open-source integrations use, checked against Balboa's own app; a Balboa firmware update that changes it can stop the extension until it is updated.
- Works with the bwa Wi-Fi module (the Balboa Worldwide App's), not the ControlMySpa gateway, which works through the cloud only.
- The spa's controls work as its panel buttons do: a two-speed pump reaches Low or High by being pressed as many times as it takes, so it may run briefly at the speed in between.
- Not included: setting the filter cycles, the spa's Fahrenheit / Celsius and 12 / 24 hour settings (set them on the spa's panel), its fault log and its reminders (pH, sanitizer, filter).
- One spa per extension: add the extension once for each spa.

Test Environment

Crestron Home 4.013.0171 on a DIN-AP4-R, set up through its setup API, against a simulated spa (CPLLC's own, speaking the Wi-Fi module's protocol; two pumps, one of them two-speed, a blower, a light, the mister, Aux 1 and a circulation pump). The page's controls appeared on the first connection; every action reached the spa (pumps on and to Low or High, the light, mister and aux, Ready and Rest, Low and High range, the setpoint), the Pump 2 On event started a sequence, the tile went Offline with the controls greyed out when the spa stopped and back Online when it returned, and after a reload every control, action and event was still there. Not yet run against a real spa.

Version History

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	Every control shows its name on the first connection; readings without units show what they are
2026-11-20	5.00	Lights and the circulation pump read as Balboa's own app reads them; up to eight pumps, two blowers and three misters
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

Date	Version	Changes
2026-11-20	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.

Company	Control Programming LLC
Contact	Randy Johnson
Email	randy@cpllc.net
Website	https://cpllc.net
Product page	https://cpllc.net/product/balboa-spa/

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