Control Programming LLC

Release Notes

CPLLC Jura Coffee Machine Platform

Version 5.00 · November 21, 2026

Product	CPLLC Jura Coffee Machine Platform (Crestron Home platform)
Version	5.00
Release date	November 21, 2026
Where to find it	Drivers › Platform › Jura › Coffee Machine, developer Control Programming LLC
Requires	Crestron Home OS 4.12 or later, and a Jura coffee machine with Jura's WiFi Connect (Smart Connect WiFi) dongle on the processor's network; the Bluetooth-only Smart Connect can't be used
Licensing	A Jura Coffee Machine Platform license key (cpllc.net/product/jura-platform) 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

> **Buyer Beware: Unofficial API**
> Jura does not publish an API for this product. This platform uses the unpublished protocol Jura's own app uses, which Jura can change or turn off at a moment's notice, without warning. If that happens the platform may stop working until it can be updated, and it may not be possible to update it.

Overview

The CPLLC Jura Coffee Machine Platform brings Jura coffee machines into Crestron Home over the machine's WiFi Connect dongle, on the local network with no cloud account. Each machine gets a page of its own: its drinks in a Program list, the Water, Strength, Milk and Foam for the next drink, its Temperature, Start and Stop, what it is doing (Grinding, Water 60%, Enjoy) and its status (Ready, Heating Up, Fill Water, Energy Saving …). The drinks, and the amounts each one allows, are read from the machine itself, so every model shows its own. Its alerts (Fill Water, Empty Grounds, Empty Tray, No Beans, Descaling Due, Cleaning Due …) and every finished drink are events for sequences. The machine sends its status every two seconds, so nothing is polled.

Capabilities

Capability	What it does
Every machine	Machines whose dongle answers the search are found by themselves; others (an S8 never answers it) by the addresses the installer gives. Each is paired once, with OK pressed on the machine.
The machine's own drinks	The Program list holds the drinks this machine makes (Espresso, Coffee, Cappuccino, Latte Macchiato, Hot Water …), read from the machine, with a Set Program action and a Program is … event for each.
Make a drink	Start makes the chosen drink with the Water, Strength, Milk, Foam and Temperature on the page, each held to what the machine allows for that drink; Stop cancels it. Each has its sequence action.
Drink progress	The page shows the drink being made and its step (Grinding, Water 60%, Milk Foam, Enjoy); Cycle Started, Cycle Ended and Drink Finished are events.
Alerts as events	Fill Water, Empty Grounds, Empty Tray, Insert Tray, No Beans, Descaling Due, Cleaning Due, Filter Change Due, Milk Rinse Due, Milk System Cleaning Due and the others the machine reports: each an event of its own.
Live updates	The machine sends its status every two seconds and every step of a drink as it happens; nothing is polled.
Live changes	Debug output turns on and off while the processor runs.

What's New in 5.00

- First release: Jura coffee machines with the WiFi Connect dongle, with the machine's own drinks, starting and stopping a drink, its progress, status and alerts.

Installing

Before installing:

1. Fit the machine with Jura's WiFi Connect dongle and connect it to the Wi-Fi network the processor is on, with Jura's J.O.E. app, following Jura's instructions.

2. Reserve the machine's address in the router, so it keeps it, and note it. An S8 never answers the platform's search, so it needs its address; other models usually don't.

3. Close the J.O.E. app on every phone: the machine takes one connection at a time, and while the platform holds it the app can't connect.

Then, in Configure Pro:

4. Add the platform from Drivers › Platform › Jura › Coffee Machine, developer Control Programming LLC, into any room. The CPLLC License Manager is not required.

5. On its installation page enter the machine addresses (separated by commas), the machine's setup PIN if it has one, and the license key in Enter License Key (or leave it blank on a site with a CPLLC site license). Select Pair Machines.

6. With someone standing at each machine, press Next (or Apply). Each new machine shows Connect on its display: press OK on it within about 40 seconds. The platform then reads the machine's drinks and lists it under Managed Platforms › the platform's name in Pair Devices. Add each to its room with its +.

7. Clear Pair Machines and apply. The platform keeps each machine's pairing, so a restart needs no OK. A machine added later is paired the same way; one reset or re-paired in the J.O.E. app shows Pair Again until Pair Machines is applied once more.

Installer Options

Option	Description
Machine Addresses	The IP addresses of the coffee machines, separated by commas. Machines whose dongle answers the search need none; an S8 always does.
Machine PIN	Only for a machine with a setup PIN on its front panel: that PIN. Leave blank for none.
Pair Machines	Select and apply while someone stands at each new machine to press OK on its Connect prompt. Clear it afterwards.
Drink Names	Names for drinks the platform names wrongly or shows by their code (Drink 2B), as code=name separated by commas, e.g. 28=Caffè Barista, 2B=Cortado. Blank uses the platform's names.
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Jura Coffee Machine Platform license key. Leave blank when the site has a CPLLC site license.

Coffee Machines

Each machine is paired on CPLLC's appliance page, titled Coffee Machine. Its tile shows its status; its page has the Program list (its drinks) and the Temperature list side by side at the top, Start and Stop, then sliders for Water (ml), Strength, Milk and Foam (seconds), then the status, the drink being made and its step, and what was last reported and when. Choosing a drink moves Water, Milk and Foam to the middle of what the machine allows for it; Strength and Temperature stay as set. A value the drink doesn't use (Milk on an Espresso) is left out, and one outside the machine's range is held to it. While the machine can't start a drink (Fill Water, Empty Grounds, a drink already running) Start is greyed out.

Each machine's own options, under the machine in Configure Pro:

Option	Description
Show on Home Screen	Shows the machine's tile on the Home screen (default off).

Option	Description
Show in Room Screen	Shows the machine’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).
Action	**Description**
Set Program	Chooses the drink Start makes, from the machine’s own drinks.
Set Temperature	Sets the temperature of the next drink: Low, Normal or High.
Set Water ml / Set Strength / Set Milk seconds / Set Foam seconds	Sets the water (15 to 300 ml), strength (1 to 10), milk and foam (0 to 60 seconds) of the next drink; each is held to what the machine allows for the drink when it is made.
Start Press	Makes the chosen drink with the values on the page.
Stop Press	Cancels the drink being made.
Extension Enable / Extension Disable	Enables or disables the machine’s page. A disabled machine shows Disabled and ignores its tile and page.
Event	**Description**
Program is <drink>	The chosen drink changed: Program is Espresso, Program is Latte Macchiato …
Temperature is <choice>	The temperature of the next drink changed to Low, Normal or High.
Start Pressed / Stop Pressed	Start or Stop was pressed, on the page or by a sequence.
Cycle Started / Cycle Ended	The machine started making a drink, and stopped.
Cycle Paused / Cycle Resumed	Not raised: a coffee machine doesn't pause a drink.
Cycle Finished / Load Removed	A drink was finished (Enjoy), and the machine went back to its usual status.
Appliance Offline / Appliance Online	The machine stopped answering (switched off, or its dongle asleep in energy saving), or answered again.
One event per alert	Insert Tray, Fill Water, Empty Grounds, Empty Tray, Insert Coffee Bin, Outlet Missing, Rear Cover Missing, Fill System, No Beans, Close Powder Cover, Fill Powder, Machine Error, Filter Change Due, Descaling Due, Cleaning Due, Milk Rinse Due, Close Tap, Milk System Cleaning Due and Drink Finished, each raised when it starts.
Extension Enabled / Extension Disabled	The machine was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered.

Sequences

Every machine's actions and events are listed under Coffee Machines. A Good Morning scene can, for example, choose Coffee with Set Program, set Water to 150 ml and press Start; a sequence can announce Fill Water or Descaling Due, or Drink Finished.

Known Limitations

- Tested on a simulated Jura machine only, not yet on a real one: a tester with a Jura coffee machine and its WiFi Connect dongle is welcome.
- Jura publishes no API for its coffee machines. The platform uses the protocol of Jura's own J.O.E. app over the WiFi Connect dongle, as worked out by the open-source jura-connect project; a change by Jura can stop it working until the platform is updated.
- The machine takes one connection at a time: while the platform holds it, the J.O.E. app can't connect to the machine.
- A drink's strength range differs between models (some have 1 to 3, others 1 to 10); a strength the machine doesn't have makes it refuse the drink, which shows on the page and in the error log.
- Drinks are named by their code, and a few codes mean different drinks on different models (on an S8 EB code 28 is Caffè Barista, not Americano): rename them with Drink Names.
- Machine maintenance (cleaning, descaling, filter change) and the machine's settings are not changed from Crestron Home; the machine reports when each is due.
- A machine saving energy may turn its dongle off: it then shows Offline until it wakes.

Test Environment

Crestron Home 4.013.0171 on a DIN-AP4-R, set up through its setup API, against a simulated Jura coffee machine (CPLLC's own, speaking the WiFi Connect dongle's protocol with an S8 EB's drinks and their ranges). Pair Machines paired it with OK pressed on the simulated machine; the platform read its seven drinks with their ranges and listed it for pairing, and after an upgrade it signed in again with the kept pairing and no prompt. A sequence chose Hot Water and pressed Start: the machine was sent 160 ml at Normal temperature, made it to Enjoy, and Drink Finished started a sequence that set the temperature to High, which the next drink carried. Removing the machine and the platform left no error. Not yet run against a real Jura machine.

Version History

Date	Version	Changes
2026-11-21	5.00	First release: Jura coffee machines with the WiFi Connect dongle, with the machine's own drinks, starting and stopping a drink, its progress, status and alerts

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/jura-platform/

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