Control Programming LLC

Release Notes

CPLLC CoolAutomation CoolMaster Platform

Version 5.00 · November 10, 2026

Product	CPLLC CoolAutomation CoolMaster Platform (Crestron Home platform)
Version	5.00
Release date	November 10, 2026
Where to find it	Drivers › Platform › CoolAutomation › CoolMasterNet
Requires	Crestron Home OS 4.12 or later, and a CoolAutomation CoolMasterNet on the processor's network, connected to the HVAC system's indoor units
Licensing	A CoolAutomation CoolMaster Platform license key (cpllc.net/product/coolmaster-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

Overview

The CPLLC CoolAutomation CoolMaster Platform brings a VRF or mini-split air conditioning system into Crestron Home through a CoolAutomation CoolMasterNet gateway. The CoolMasterNet sits on the HVAC system's own communication lines (Daikin, Mitsubishi Electric, LG, Samsung, Toshiba, Fujitsu, Hitachi, Panasonic and others) and controls every indoor unit on them. The platform reads the gateway's list of indoor units and adds each one to Crestron Home as a thermostat of its own, with the name, modes and fan speeds set up for it on the gateway. A Thermostats tile lists every indoor unit, so a whole building can be run from one tile.

Capabilities

Capability	What it does
IP control	The CoolMasterNet is driven over the network on its ASCII server (TCP port 10102 by default), using CoolAutomation's published ASCII protocol. The connection comes back by itself after an outage or a gateway restart.

Capability	What it does
Every indoor unit found	The platform reads the gateway's list of indoor units on every HVAC line and adds each one as a thermostat.
Set up on the gateway	Each indoor unit takes the name given to it on the CoolMasterNet, and offers only the modes and fan speeds the gateway allows it; no installer setup per unit.
Thermostat	Each indoor unit shows its room temperature and its one setpoint, a Mode list (Off, Cool, Heat, Auto, Dry, Fan), its fan speeds (Very Low to Top, and Auto), and its louver positions when it has louver control.
Thermostats overview	A Thermostats tile lists every indoor unit with its mode; Select opens that unit's page.
Units added later	An indoor unit that appears on the gateway after the platform is installed is added to Managed Platforms, ready to be placed in a room.
Feedback	The gateway is read every 30 seconds, and a unit is read again a few seconds after each change from Crestron Home, so a change made at a wall controller shows within half a minute.
Temperature scale	Every unit can be shown in the gateway's own scale, in Fahrenheit or in Celsius; the gateway's own setting is never changed.
Sequences	Each indoor unit brings its actions and events to Crestron Home sequences.
Live changes	Debug output turns on and off while the processor runs.

What's New in 5.00

- First release, built on the Crestron Home SDK V2 and the CPLLC 5.0 shared libraries, with a new CoolMaster library written from CoolAutomation's published ASCII protocol.
- Every indoor unit on the gateway is a Crestron Home thermostat with its modes, setpoint, fan speeds and louver, as the gateway allows it.
- A Thermostats tile lists every indoor unit and opens each one's page.
- Its own license key, or a CPLLC site license key, licenses the platform by itself; the CPLLC License Manager is not required, but is the convenient place to enter a site license key once for every CPLLC driver.

Installing

Set up the CoolMasterNet first, with CoolAutomation's own tools: its HVAC lines, and each indoor unit's name and allowed modes and fan speeds (its props). Give it a fixed IP address on the processor's network, and make sure its ASCII server is on (it is by default, on port 10102).

Add the platform from Drivers › Platform › CoolAutomation › CoolMasterNet. On the first page enter the gateway's IP address and, if it was changed, its port; then the license key and the Temperature Scale. The CPLLC License Manager is not required.

Once the options are saved, the platform reads the gateway's indoor units. Each one is listed under Managed Platforms › the platform's name in Pair Devices, ready to be added to a room with its +, and the Thermostats device is listed with the first.

Installer Options

Option	Description
IP Address / Hostname	The CoolMasterNet's IP address or host name, on the first page.
Port	The gateway's ASCII server port (default 10102), on the first page.
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The CoolAutomation CoolMaster Platform license key. Leave blank when the site has a CPLLC site license.
Temperature Scale	The scale every unit's page shows its temperatures and setpoint in: As Reported (the default, the gateway's own scale), Fahrenheit in whole degrees, or Celsius in half degrees. A change shows once the platform is reloaded.

Each indoor unit, and the Thermostats device, has its own options, under that device in Setup:

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

Indoor Units

Each indoor unit is a Crestron Home thermostat named as it is named on the CoolMasterNet, or by its address on the gateway ("L1.100": line 1, unit 100) when it has no name there. Its page shows the room temperature and its one setpoint, a Mode list, a Fan Mode list, a Swing list when the unit has louver control, and a Sync button that reads it again.

The Mode list holds Off and the modes the gateway allows the unit: Cool, Heat, Auto, Dry and Fan (all of them unless they were limited on the gateway). Off turns the unit off; any other mode sets that mode and turns the unit on. A unit running on auxiliary heat (Haux) shows Heat. The Fan Mode list holds the fan speeds the gateway allows it (Low, Medium, High and Auto unless set otherwise; Very Low and Top where the unit has them). The

Swing list holds Swing, Horizontal, Angle 30, Angle 45, Angle 60 and Vertical; a unit takes only the positions it supports.

An indoor unit adds these actions and events:

Action	Description
Set Setpoint	Sets the unit's setpoint, in the scale its page shows.
Set Mode	Sets the unit to Off or one of its modes: Cool, Heat, Auto, Dry or Fan.
Set Fan Mode	Sets the unit's fan speed: Very Low, Low, Medium, High, Top or Auto, as it allows.
Set Swing	Sets the louver position, on a unit with louver control.
Sync	Reads the unit from the gateway again.
Extension Enable / Extension Disable	Enables or disables the unit. A disabled unit shows Disabled and ignores its tile and page.
Event	**Description**
Temp Above Setpoint / Temp Below Setpoint	The room temperature crossed the setpoint, once per crossing; never while the unit is Off.
is On / is Off	The unit turned on (from Off to a mode) or off.
Mode is Off / Mode is Cool / Mode is Heat / Mode is Auto / Mode is Dry / Mode is Fan	The unit changed to that mode, from Crestron Home, a wall controller or the gateway. Only the modes it allows.
Extension Enabled / Extension Disabled	The unit was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered.

Thermostats Overview

The platform also adds a Thermostats device, paired with the first indoor unit it finds. Its tile shows how many units it lists; its page lists every indoor unit with its mode and a Select button that opens that unit's own page: the same thermostat, mode, fan, swing and Sync controls its own tile has. A unit added to the gateway later is added to the list too.

Its installer options are Show on Home Screen, Show in Room Screen and the PIN code. It adds no actions of its own (each unit's own actions and events set and report it, whichever page changed it), and these events:

Event	Description
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered.

Sequences

Each indoor unit brings its actions and events (above) to Crestron Home sequences, under its name in Customize Actions & Events: a Leave scene can, for example, set every unit to Off, and a unit's Temp Above Setpoint can send a notification with the CPLLC Pushover extension.

End-User Experience

The platform has no tile of its own. Each indoor unit appears in its room as a Crestron Home thermostat, and the Thermostats tile lists every unit; touching a tile opens its page.

Without a valid license key or a CPLLC site license, the devices run for a two-hour grace period after the platform starts; then they show License Expired and their controls stop working until a key is entered.

Known Limitations

- Not yet tried with a CoolMasterNet: no gateway or VRF system is in CPLLC's lab. The protocol was written from CoolAutomation's CoolMasterNet Programmer Reference Manual and checked against a simulated gateway.
- The CoolMasterNet's ASCII interface reports nothing by itself, so a change made at a wall controller or another app shows when the platform next reads the gateway, within 30 seconds.
- Each indoor unit has one setpoint, as the CoolMasterNet has; Auto uses it for both heating and cooling.
- The setpoint range shown is 16 to 32 °C (60 to 90 °F); an indoor unit that takes less holds the setpoint to its own range, and the page then shows what it accepted.
- The gateway is reached over the network only, not on its RS-232 port, and through its ASCII interface: CoolAutomation's REST API, CoolRemote cloud, BACnet, Modbus and KNX interfaces are not used.
- A unit's failure code is written to the platform's log; it is not shown on the page.
- The ventilation (VAM), domestic hot water and other non-thermostat devices a CoolMasterNet can drive are not added.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R. No CoolMasterNet was available: the CoolMaster library's discovery, status parsing, unit names and allowed modes, temperature conversion and commands were checked in its test harness against replies taken from CoolAutomation's CoolMasterNet Programmer Reference Manual.

Version History

Date	Version	Changes
2026-11-10	5.00	First release: every indoor unit on a CoolMasterNet as a thermostat with its modes, setpoint, fan speeds and louver, and a Thermostats tile listing every unit

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/coolmaster-platform/

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