# Control Programming LLC

Release Notes

# CPLLC Venstar Platform

Version 5.00 · November 24, 2026

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| **Product** | CPLLC Venstar Platform (Crestron Home platform) |
| **Version** | 5.00 |
| **Release date** | November 24, 2026 |
| **Where to find it** | Drivers › Platform › Venstar › Local API |
| **Requires** | Crestron Home OS 4.12 or later, and one or more Venstar ColorTouch or Explorer Wi-Fi thermostats on the processor's network with Local API turned on |
| **Licensing** | A Venstar Platform license key (cpllc.net/product/venstar-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 Venstar Platform brings Venstar ColorTouch and Explorer Wi-Fi thermostats into Crestron Home over the local network, using Venstar's published Local API. It finds every thermostat on the processor's network that has Local API turned on and adds each one to Crestron Home as a thermostat: its mode, heat and cool setpoints, fan, and whether it follows its schedule, holds its setpoints or is Away. Nothing goes through the internet: no Venstar Skyport account is needed, and the thermostats keep working with Crestron Home when the internet is down.

## Capabilities

| Capability | What it does |
|---|---|
| **Local control** | Each thermostat is driven directly over the network with Venstar's published Local API. No cloud service or account is involved. |

| Capability | What it does |
|---|---|
| **Thermostats found by themselves** | The platform searches the processor's network and adds every Venstar thermostat that answers. A thermostat on another subnet is added by listing its IP address. |
| **Thermostat** | Each thermostat shows its room temperature, its humidity when it measures it, and its heat and cool setpoints, with a Mode list (Off, Heat, Cool, Dual), a Fan Mode list (Auto, On) and a Smart list (Schedule, Hold, Away). |
| **Set up on the thermostat** | Each thermostat takes its name from the thermostat itself and offers only the modes it is set up for (heat only, cool only, or heat and cool without Auto), with the setpoint limits set on it. |
| **Thermostats added later** | A thermostat that joins the network after the platform is installed is added to Managed Platforms within a few minutes, ready to be placed in a room. |
| **Address changes followed** | A thermostat found by the search is known by its MAC address, so it keeps working when its IP address changes. |
| **Feedback** | Each thermostat is read every 30 seconds, and again right after each change from Crestron Home, so a change made at the thermostat shows within half a minute. |
| **Offline shown** | A thermostat that stops answering shows offline on its tile within about a minute, and online again as soon as it answers. |
| **Temperature scale** | Every thermostat can be shown in its own scale, in Fahrenheit or in Celsius; the thermostat's own setting is never changed. |
| **Sequences** | Each thermostat brings its actions, events and states 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 Venstar library written from Venstar's published Local API.
- Every Venstar thermostat on the network is a Crestron Home thermostat with its modes, heat and cool setpoints, fan, and Schedule / Hold / Away.
- 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

On each thermostat, turn on Local API first, in the thermostat's own Wi-Fi settings (it is off when the thermostat ships; Venstar's manual for the model shows where). Leave the Local API's own user name and password off (see

Known Limitations). A thermostat that is given a fixed or reserved IP address is found fastest after a power cut, but it is not required.

Add the platform from Drivers › Platform › Venstar › Local API, and enter the license key. Leave Thermostat Addresses blank when every thermostat is on the processor's own network; list the IP addresses of any that are on another subnet. The CPLLC License Manager is not required.

Once the options are saved, the platform searches for the thermostats, which takes a few seconds. Each one is listed under Managed Platforms › the platform's name in Pair Devices, by the name it has on the thermostat, ready to be added to a room with its +.

## Installer Options

| Option | Description |
|---|---|
| **Obtain License Key** | Opens CPLLC.net, where license keys and site licenses can be purchased. |
| **Enter License Key** | The Venstar Platform license key. Leave blank when the site has a CPLLC site license. |
| **Thermostat Addresses** | The IP addresses of thermostats the search can't find because they are on another subnet, separated by commas. Blank (the default) when every thermostat is on the processor's network. |
| **Screen Lock PIN** | Only when the thermostats' screen lock is on: its PIN, which the thermostat then wants with every command. Blank (the default) when the screen lock is off. One PIN serves every thermostat. |
| **Temperature Scale** | The scale every thermostat's page shows its temperatures and setpoints in: As Reported (the default, the thermostat's own scale), Fahrenheit in whole degrees, or Celsius in half degrees. A change shows once the platform is reloaded. |

Each thermostat has its own options, under that device in Configure Pro:

| Option | Description |
|---|---|
| **Show on Home Screen** | Shows the thermostat's tile on the Home screen (default off). |
| **Show in Room Screen** | Shows the thermostat'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). This is Crestron Home's own PIN for the page, not the thermostat's screen lock. |
| **Seconds Pin Active** | How long the page stays unlocked after the last touch (default 10 seconds). |

## Thermostats

Each thermostat is a Crestron Home thermostat named as it is named on the thermostat itself. Its page shows the room temperature, the humidity when the thermostat measures it, the heat and cool setpoints, a Mode list, a Fan Mode list, a Smart list, and a Sync button that reads the thermostat again.

The Mode list holds Off and the modes the thermostat is set up for: Heat, Cool and Dual. Dual is Venstar's Auto mode: the thermostat heats to the heat setpoint and cools to the cool setpoint. In Dual the thermostat keeps the two setpoints a few degrees apart (its own setting, 2 °F unless changed), so raising the heat setpoint close to the cool one moves the cool setpoint up with it, and lowering the cool setpoint moves the heat one down. The Fan Mode list holds Auto (the fan runs with heating and cooling) and On (it runs all the time).

The Smart list says what the thermostat follows. Schedule runs the thermostat's own time schedule. Hold turns the schedule off, so the setpoints stay as they are set. Away, on a residential thermostat, puts it in its Away mode with the Away setpoints set on the thermostat; choosing Schedule or Hold ends it. A commercial thermostat has no Away.

A thermostat adds these actions and events:

| Action | Description |
|---|---|
| **Set Heat Setpoint / Set Cool Setpoint** | Sets that setpoint, in the scale the thermostat's page shows. |
| **Set Mode** | Sets the thermostat to Off or one of its modes: Heat, Cool or Dual. |
| **Set Fan Mode** | Sets the fan to Auto or On. |
| **Set Smart** | Sets what the thermostat follows: Schedule, Hold or Away. |
| **Sync** | Reads the thermostat again. |
| **Extension Enable / Extension Disable** | Enables or disables the thermostat in Crestron Home. A disabled thermostat shows Disabled and ignores its tile and page; the thermostat itself carries on. |
| **Event** | **Description** |
| **Temp Above Setpoint / Temp Below Setpoint** | The room temperature crossed the setpoint, once per crossing; never while the thermostat is Off. |
| **is On / is Off** | The thermostat turned on (from Off to a mode) or off. |
| **Mode is Off / Mode is Heat / Mode is Cool / Mode is Dual** | The thermostat changed to that mode, from Crestron Home, at the thermostat or from Venstar's app. Only the modes it is set up for. |
| **Fan Mode is Auto / Fan Mode is On** | The fan setting changed to that choice. |
| **Smart is Schedule / Smart is Hold / Smart is Away** | The thermostat started following its schedule, holding its setpoints, or went to Away. |
| **Extension Enabled / Extension Disabled** | The thermostat was enabled or disabled in Crestron Home. |

| Action | Description |
|---|---|
| **Pin Locked / Pin UnLocked** | The page's PIN keypad locked again, or the right PIN was entered. |

## Sequences

Each thermostat 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 thermostat's Smart to Away, and a Return scene set it back to Schedule.

The controls on a thermostat's page are also states a sequence's If (Conditional) step can test: its Temperature, Heat Setpoint and Cool Setpoint, its Mode, Fan Mode and Smart by their value, "Extension Is Enabled" and "Pin Is Locked". Crestron Home lists a "Changed" event for each state, raised whenever it changes.

## End-User Experience

The platform has no tile of its own. Each thermostat appears in its room as a Crestron Home thermostat; touching its tile opens its page.

Without a valid license key or a CPLLC site license, the thermostats 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 Venstar thermostat: none is in CPLLC's lab. The driver was written from Venstar's published Local API and tested against a simulated thermostat.
- Venstar's Local API reports nothing by itself, so a change made at the thermostat or in Venstar's app shows when the platform next reads the thermostat, within 30 seconds.
- The Local API's own user name and password (HTTP authentication) and its HTTPS option are not supported: leave them off on the thermostat. The screen lock's PIN is supported.
- The search for thermostats stays on the processor's own network. A thermostat on another subnet is listed by its IP address, and should then have a fixed or reserved address.
- Away uses the Away setpoints set on the thermostat; they can't be changed from Crestron Home.
- The thermostat's remote sensors, outdoor temperature, run times, service alerts (filter, UV lamp), humidify and dehumidify setpoints, and a commercial thermostat's override and holiday settings are not shown.
- The thermostat's time schedule is turned on and off from Crestron Home (Schedule and Hold) but is edited on the thermostat or in Venstar's app.

## Test Environment

Tested on Crestron Home 4.013.0171 on a DIN-AP4-R against a simulated pair of Venstar thermostats (one residential, one commercial) that follow Venstar's published Local API: finding and pairing them, Mode, both setpoints and their spacing in Dual, Fan Mode, Schedule / Hold / Away, a change made at the thermostat, a thermostat going offline and coming back, and a driver reload (November 2026).

## Version History

| Date | Version | Changes |
|---|---|---|
| 2026-11-23 | 5.00 | First release: every Venstar thermostat on the network as a Crestron Home thermostat with its modes, heat and cool setpoints, fan, and Schedule / Hold / Away |

## 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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