Control Programming LLC

Release Notes

CPLLC Pushover

Version 5.00 · November 5, 2026

Product	CPLLC Pushover (Crestron Home extension)
Version	5.00
Release date	November 5, 2026
Where to find it	Drivers › Notifications › Control Programming LLC › Pushover
Requires	Crestron Home OS 4.12 or later, the CPLLC License Manager 5.00 or later, internet access from the processor, and a Pushover account with an application of its own (pushover.net)
Licensing	A Pushover license key (cpllc.net/product/pushover-notification) or a CPLLC site license key (cpllc.net/product/site-license)

Overview

The CPLLC Pushover is a Crestron Home tile that sends push notifications through Pushover to the phones, tablets and computers of a Pushover user or delivery group. Its page holds up to 10 messages, each entered by the installer in one setting as name|icon|title|message|priority|sound. Pressing a message, on the page or from a sequence, sends it and runs its “Pressed <name>” event, so any Crestron Home event, such as a door opening, a leak or an alarm, can send a notification. Messages are sent with the owner’s own Pushover application token.

Capabilities

Capability	What it does
Up to 10 installer-defined messages	Each message’s name, icon, title, text, priority and sound are whatever the installer enters in Message 01 – 10, in one box as name|icon|title|message|priority|sound (for example Garage Open|icGarageOpen|Garage|The garage door is open|high|siren). A message whose name is blank is not shown, so the page holds only the messages in use.

Capability	What it does
Pushover priorities and sounds	Each message has its own priority, from lowest (no alert) to emergency (repeated every minute for up to an hour until it is acknowledged in the Pushover app), and its own Pushover sound. Left blank, the user's own Pushover defaults apply.
User, group or one device	Messages go to a Pushover user key or a delivery group key, to all of its devices or to one device by name.
HTML or plain text	With Allow HTML Formatting checked, the message text may use Pushover's HTML (bold, italic, underline, colors, links); unchecked, it is sent as plain text.
Checked in Setup	The Application Token, the User/Group Key and the Device are checked with Pushover when OK or Next is pressed, and a wrong one is reported on its option.
Tile shows the last message	The tile's icon and status, and the control page's subtitle, show the last message sent. Until the first one, the tile shows the installer's Tile Icon and Page Header Text.
PIN code	A keypad must be cleared before the messages are shown. The PIN can be changed from the keypad, and the messages lock again after a set time without touches.
Sequence actions	Select Message sends any message by its name; enable or disable the tile.
Events	One "Pressed <name>" event per message; enabled or disabled; PIN locked or unlocked.
Home and room screens	The tile can be shown in its room, on the Home screen, or both.
Live changes	Installer options take effect as soon as OK is pressed in Setup, with no reload; debug output turns on and off while the processor runs.

What's New in 5.00

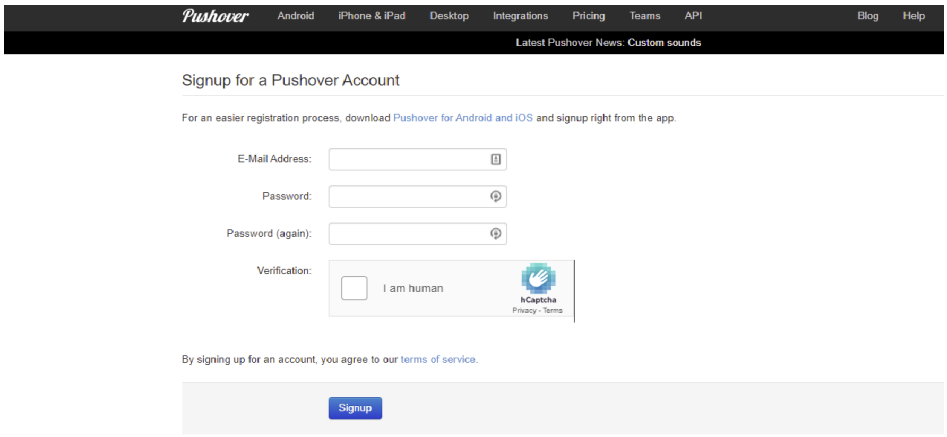
- Rebuilt on the Crestron Home SDK V2 and the CPLLC 5.0 shared libraries.
- Up to 10 messages instead of one, each with its own name, icon, title, text, priority and sound, and its own "Pressed <name>" event.
- Sequences send a message by name with Select Message (it replaces 2.x's Send).
- The owner's own Pushover application token is entered in Setup as Application Token. Version 2.x sent every message through CPLLC's own Pushover application; that is gone, so messages count against the owner's own monthly allowance (10,000 free per month).
- Allow HTML Formatting now does what it says: checked sends HTML, unchecked sends plain text. Version 2.x had it the other way round, so an installation upgraded with it unchecked, which sent HTML before, now sends plain text.

- A Device option sends to one of the user's devices only.
- The Application Token, the User/Group Key and the Device are checked with Pushover in Setup.
- Messages are sent in the background, one at a time, so a slow connection never holds up Crestron Home.
- PIN code, Tile Icon and Page Header Text options added.
- Debug output can be turned on and off while the processor runs, without a restart.

Installing

Before installing, the owner needs a Pushover account and a Pushover application of their own:

- Create an account at pushover.net (or in the Pushover app) and install the Pushover app on each phone or tablet that should receive the messages. Sign in to the app with the same account: Pushover delivers only to the account's active devices. The dashboard at pushover.net shows the account's User Key, under "Your User Key" at the top right.
- On pushover.net, choose "Create an Application/API Token" (pushover.net/apps/build), give it a name such as Crestron Home (the name shows on every message), optionally an icon, agree to the terms and press Create Application. Its page shows the API Token/Key: this is the Application Token the extension needs. It can be found again later under "Your Applications" on the dashboard.
- Pushover's apps have a free trial, then a one-time purchase per platform; an application may send 10,000 messages a month free.



Signing up for a Pushover account

Version 5.00 upgrades an installed 2.x CPLLC Pushover in place: load the package on the processor and Crestron Home updates the existing driver. It needs the CPLLC License Manager 5.00 or later on the processor; the license key already entered stays valid. The User/Group Key and Allow HTML Formatting carry over, but an upgraded installation sends nothing until the owner's own Application Token is entered: Setup asks for it. Note that Allow HTML Formatting now sends plain text when unchecked (see What's New). The 2.x Notification Message Title and Body do not carry over: enter the message again in Message 01 as name|icon|title|message, and set up the sequences that used Send again with Select Message, and those that followed the Sent event with the message's "Pressed <name>" event.

For a new installation, add it from Drivers › Notifications › Control Programming LLC › Pushover, enter its license key (or leave it blank on a site with a CPLLC site license), the Application Token and the User/Group Key, and the messages.

Installer Options

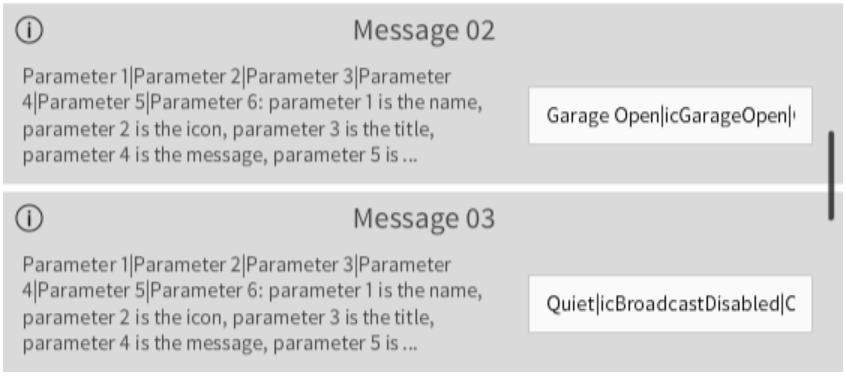
Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Pushover license key. Leave blank when the site has a CPLLC site license.
Show on Home Screen	Shows the tile on the Home screen (default off).
Show in Room Screen	Shows the tile in its room (default on).
Starting Pin Code	A numeric PIN that must be entered before the messages are shown. Blank means no PIN (the default). A new Starting Pin Code replaces a PIN changed from the keypad, so a forgotten PIN can be reset here.
Seconds Pin Active	How long the messages stay unlocked after the last touch (default 10 seconds; 0 also means 10).
Tile Icon	The tile's icon until the first message is sent (default icBroadcastRegular).
Page Header Text	The control page's title, and the tile's status until the first message is sent. Blank shows "Pushover".
Message 01 – 10	The message in one box, as Parameter 1|Parameter 2|Parameter 3|Parameter 4|Parameter 5|Parameter 6: the name, shown on the page and naming its event and its entry in Select Message; the icon, by its name in the Crestron Home icon library; the title of the notification (blank: the Pushover application's name); the message text (blank: the name); the priority, -2 to 2 or lowest, low, normal, high, emergency (blank: normal); and the sound, by its Pushover name such as pushover, siren, cashregister or none (blank: the user's default). Leave the box blank to hide the message. Give each message a different name: Select Message sends the first one with the name chosen.
Application Token	Required. The owner's own Pushover application's API Token/Key (see Installing). Shown in Setup as entered. Pushover checks it when OK or Next is pressed; one it refuses shows Invalid Token.
User/Group Key	Required. The user key on the owner's pushover.net dashboard, or a delivery group's key, that receives the messages. Pushover checks it when OK or Next is pressed; one it refuses shows Invalid User/Group Key. A key Pushover knows but whose user has no active devices yet is accepted: messages are taken but reach no phone until the Pushover app is set up on one.

Option	Description
Device	The name of one of the user's devices in Pushover, to send to that device only; a name the user doesn't have shows Invalid Device. Blank sends to all of them (the default).
Allow HTML Formatting	Checked to send the message text as HTML, unchecked to send it as plain text (default unchecked).

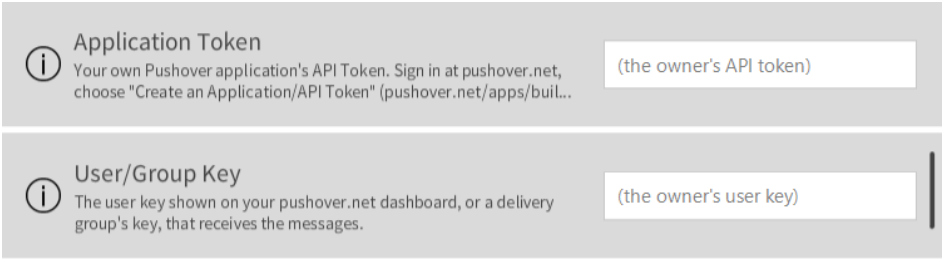
Priorities: lowest (-2) sends no notification at all, only a message in the Pushover app's list; low (-1) sends a notification with no sound or vibration; normal (0) follows the user's settings; high (1) alerts even during the user's quiet hours; emergency (2) repeats every 60 seconds for up to an hour until the user acknowledges it in the Pushover app.

Icon names must be ones the Crestron Home icon library lists, typed exactly. Crestron publishes the list, with a picture of each icon, as Extension Device Icons in its Certified Drivers SDK documentation.

The pictures in this document come from the example set-up below:



Installer settings: Messages 02 and 03 as name|icon|title|message|priority|sound

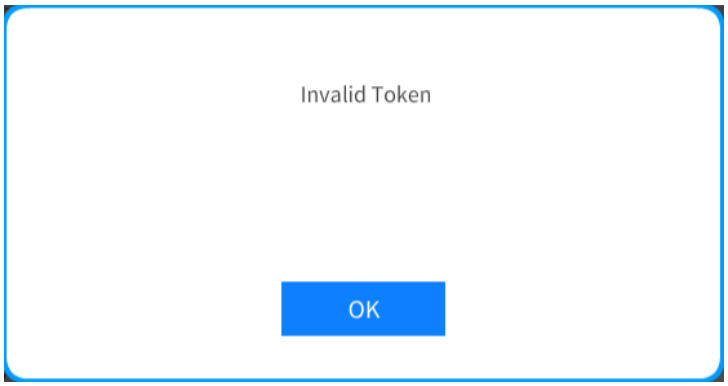


Installer settings: the owner's Application Token and User/Group Key



Installer settings: Device and Allow HTML Formatting

Option	Example value	Notification sent
Message 01	Test|icBroadcastRegular|Crestron Home|Pushover test message||	“Crestron Home: Pushover test message”, normal priority, the user’s sound
Message 02	Garage Open|icGarageOpen|Garage|The garage door is open|high|siren	“Garage: The garage door is open”, high priority, the siren sound
Message 03	Quiet|icBroadcastDisabled|Crestron Home|A quiet message|lowest|none	“Crestron Home: A quiet message”, in the app only, no sound



Setup: an Application Token Pushover refuses

Sequences

The Pushover adds these actions to Crestron Home sequences.

Action	Description
Select Message	Sends the message chosen from the list of message names, as a touch on the page does: it is sent through Pushover, its Pressed event runs and the tile shows it.
Extension Enable / Extension Disable	Enables or disables the tile. A disabled tile shows Disabled and sends nothing.

The Pushover reports these events, under its name in Customize Actions & Events.

Event	Description
Pressed <name>	The message was pressed, from the page or by Select Message, and queued to send.
Extension Enabled / Extension Disabled	The tile was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered.

End-User Experience

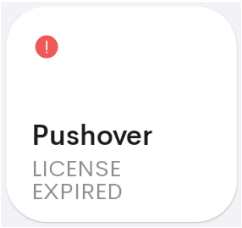
The tile shows the last message sent: the icon and name the installer entered for it, with the name as the status. Touching the tile opens the control page, which lists the messages in order (Message 01 first); touching one sends it.



Before the first message

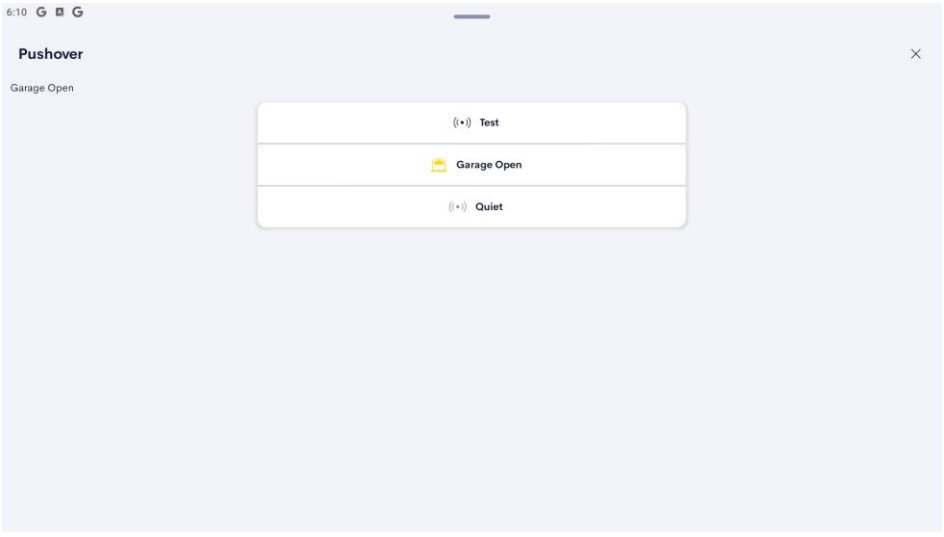


Garage Open sent



License Expired

Without a valid license key or a CPLLC site license, the tile runs for a two-hour grace period after it starts; then it shows License Expired with an alert icon, and the messages send nothing. Entering a valid key, or adding a site license, clears it without a restart.



Control page from the example set-up, Garage Open last sent

With a Starting Pin Code set, the tile and the control page first show a keypad. A wrong PIN keeps the keypad; entering the PIN and pressing Enter shows the messages. Change Pin opens a second keypad where a new PIN is

entered, then kept with Save or dropped with Cancel. The keypad returns once Seconds Pin Active has passed with no touches.

Known Limitations

- Whether Pushover accepted a message is not shown on the tile: the tile shows the last message pressed. Pushover's answer, and any error, is in the extension's debug output.
- A message that doesn't arrive is most often one of three things: the Pushover app on the phone is signed in to a different account than the User/Group Key, or signed out, so the account has no active devices (Pushover takes the message and delivers it to no one; the debug output shows "no active devices to send to"); the message's priority is lowest, which never notifies and only shows in the app's list; or its sound is none, which arrives silently.
- An emergency message repeats every 60 seconds for an hour unless acknowledged; it cannot be cancelled from Crestron Home.
- Nothing is sent again after a restart: the tile shows the last message, but it is not repeated.
- A message's name, icon, title and text cannot contain |, which separates them.
- Select Message finds a message by its name, so two messages with the same name both send the first one from a sequence.
- Pushover limits the text to 1024 characters and the title to 250; longer ones are cut.
- The processor must reach api.pushover.net: it needs internet access and working DNS. When Pushover cannot be reached in Setup, the token and key are kept unchecked and checked again with the first message.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R, set up with Crestron Home Setup (XPanel 2.16.05) and used from the Crestron Home app 4.13.0 on Android. The example set-up was installed from its defaults: Setup checked the Application Token and the User/Group Key with Pushover, and showed Invalid Token for a token Pushover refused. Each message was pressed on the control page; Pushover accepted each one (status 1, with its priority and sound), it ran its Pressed event and set the tile. On the phone, Test and Garage Open arrived as notifications; Quiet (lowest) sent no notification, as lowest is meant to. A 5.00 test build upgraded in place to the next through Check for Driver Update; an upgrade from an installed 2.x was not tried. License Expired was checked on the processor.

Version History

Date	Version	Changes
2026-11-05	5.00	• Rebuilt on the Crestron Home SDK V2 and the CPLLC 5.0 shared libraries • Up to 10 messages, each name|icon|title|message|priority|sound, with its own Pressed event • Select Message replaces Send; the owner's own Application Token is required • Allow HTML Formatting no longer inverted; Device option; token and key checked in Setup • PIN code, Tile Icon and Page Header Text options
2023-04-04	2.00	Added required CCD SDK JSON fields
2022-08-18	2.00	Bug fixes
2022-07-28	2.00	Converted to the License Manager
2022-06-13	1.00	Updated to use standard CPLLC libraries
2021-06-08	1.00	Initial release

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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Email	randy@cpllc.net
Website	https://cpllc.net
Product page	https://cpllc.net/product/pushover-notification/

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