Control Programming LLC

Release Notes

CPLLC ntfy Notifications

Version 5.00 · November 17, 2026

Product	CPLLC ntfy Notifications (Crestron Home extension)
Version	5.00
Release date	November 17, 2026
Where to find it	Drivers › Notifications › Control Programming LLC › ntfy
Requires	Crestron Home OS 4.12 or later, internet access from the processor (or a network path to the owner's own ntfy server), and the free ntfy app on each phone that receives the notifications
Licensing	A ntfy Notifications license key (cpllc.net/product/ntfy-notifications), a CPLLC Toolkit license key (cpllc.net/product/toolkit-license) or a CPLLC site license key (cpllc.net/product/site-license), entered in the extension's Enter License Key, or a Toolkit or site license key once in the CPLLC License Manager

Overview

The CPLLC ntfy Notifications is a Crestron Home tile that sends push notifications through ntfy, a free, open-source notification service, to every phone, tablet or computer subscribed to a topic in the free ntfy app. Its page holds up to 10 messages, each entered by the installer in one setting as name|icon|title|message|priority|tags|topic. 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.

ntfy needs no account, no phone number, no payment and no registration: the owner installs the ntfy app, subscribes to a topic name chosen for the house, and the installer enters the same name here. The free public server, ntfy.sh, is used by default; an owner who runs their own ntfy server can use it instead.

Capabilities

Capability	What it does
Up to 10 installer-defined messages	Each message's name, icon, title, text, priority, tags and topic are whatever the installer enters in Message 01 – 10, in one box as name|icon|title|message|priority|tags|topic (for example Garage Open|icGarageOpen|Garage|The garage door is open|high|warning,house|). A message whose name is blank is not shown, so the page holds only the messages in use.
Priorities and tags	Each message has its own ntfy priority, from min (no sound or pop-up) to urgent (rings through and keeps vibrating), and its own tags; a tag that is an emoji name, such as warning, house or rotating_light, shows as that emoji before the title.
Its own topic for each message	A message sent to the Topic option reaches everyone subscribed to it; a message with its own topic goes to that topic instead, so a leak can alert the whole family and a garage door only one person.
Checked in Configure Pro	The Server and the Topic are checked when OK or Next is pressed, and the server and the Access Token with ntfy; 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 they are changed in Configure Pro, with no reload; debug output turns on and off while the processor runs.

What's New in 5.00

- First release.

Installing

Setting up ntfy takes a minute and costs nothing:

- Choose a topic name for the house: letters, numbers, - and _, up to 64 characters. On the public server anyone who knows a topic name can read its messages, so make it long and hard to guess, such as smith-home-x7k2q9, and keep it private.
- On an iPhone or iPad: install ntfy from the App Store (developer Philipp Heckel; free, no account). Open it and tap Allow when it asks to send notifications; if that was missed, turn on Allow Notifications, Lock Screen, Banners and Sounds in the iPhone's Settings › Notifications › ntfy. Then tap +, enter the topic name, leave "Use another server" off, and tap Subscribe. Notifications also appear on a paired Apple Watch.
- On an Android phone or tablet: install ntfy from Google Play, allow notifications when asked, tap +, enter the topic name and subscribe.
- Do the same on every phone that should receive the notifications. For a message that only some people should get, give it its own topic, and subscribe to that topic only on their phones.

An owner who runs their own ntfy server enters its address in Server, and an access token in Access Token if the server or topic requires one; the app then subscribes with "Use another server".

Then add the extension from Drivers › Notifications › Control Programming LLC › ntfy, enter its license key (or leave it blank on a site with a CPLLC Toolkit or site license), the Topic, 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 ntfy Notifications license key. Leave blank when the site has a CPLLC Toolkit or 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 "Notifications".

Option	Description
Message 01 – 10	The message in one box, as Parameter 1|Parameter 2|Parameter 3|Parameter 4|Parameter 5|Parameter 6|Parameter 7: 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 topic name); the message text (blank: the name); the priority, 1 to 5 or min, low, default, high, urgent (blank: default); the tags, separated by commas, such as warning,house (emoji names show as emojis; see ntfy's emoji list); and the topic (blank: the Topic option). Leave the box blank to hide the message. Give each message a different name: Select Message sends the first one with the name chosen.
Server	The ntfy server. Blank (the default) uses the free public server, ntfy.sh; or enter the address of the owner's own ntfy server, such as https://ntfy.example.com. An address that isn't one shows Invalid Server.
Topic	Required. The topic the messages go to, the same name the phones subscribe to in the ntfy app (see Installing): letters, numbers, - and _, up to 64. Any other shows Invalid Topic.
Access Token	Only for a protected topic or a server that requires one: an ntfy access token (tk_...). Leave blank for ntfy.sh. One the server refuses shows Invalid Token.

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.

Option	Example value	Notification sent
Message 01	Test|icBroadcastRegular|Crestron Home|ntfy test message|||	"Crestron Home: ntfy test message", default priority
Message 02	Garage Open|icGarageOpen|Garage|The garage door is open|high|warning,house|	"⚠🏠 Garage: The garage door is open", high priority
Message 03	Quiet|icBroadcastDisabled|Crestron Home|A quiet message|min||	"Crestron Home: A quiet message", no sound or pop-up

Sequences

The ntfy Notifications 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 ntfy, 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 ntfy Notifications 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.

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.

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

- On the public server, ntfy.sh, a topic name is the only protection: anyone who knows or guesses it can read the notifications and send to the same phones. Use a long, hard-to-guess name and keep it private, or use a server of the owner's own with an access token.
- Whether ntfy accepted a message is not shown on the tile: the tile shows the last message pressed. ntfy's answer, and any error, is in the extension's debug output.
- On an iPhone, the ntfy app can stop showing notifications with no error, while the messages still appear when the app is opened. Deleting the ntfy app, installing it again, allowing notifications and subscribing to the topic again cures it. This is a known fault of ntfy's iPhone app, not of the extension.
- Notifications reach only phones that have the ntfy app and are subscribed to the topic; a phone that has turned off the app's notifications, or has no internet connection, gets them when it next connects, for as long as ntfy keeps them (12 hours on ntfy.sh).
- The free public server limits how many messages one address may send a day; a home's alerts stay far below it, but a sequence that sends in a loop could reach it.
- Nothing is sent again after a restart: the tile shows the last message, but it is not repeated.
- A message's name, icon, title, text, tags and topic 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.

- ntfy limits the text to 4096 characters and this extension the title to 250; longer ones are cut.
- The processor must reach the ntfy server (ntfy.sh needs internet access and working DNS). When it cannot be reached when the settings are entered, they 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 Configure Pro 4.12, receiving on an iPhone with the ntfy app and a paired Apple Watch. The extension was added in Configure Pro from its package and came up Online with its settings; a quick action running Select Message sent a message through ntfy.sh, which arrived on the phone with its title, text, priority and tags. Default, high and urgent messages each showed on the lock screen with sound, and urgent on the watch too. Before the app was reinstalled, it showed the messages only inside the app (see Known Limitations). The library was also tested on Windows against ntfy.sh: topic names, priorities and server addresses were checked as above, and an access token ntfy.sh refused was reported as invalid.

Version History

Date	Version	Changes
2026-11-17	5.00	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.

> **CPLLC Toolkit License**
> A CPLLC Toolkit license is one key per processor that licenses every CPLLC toolkit product on that processor (the UI tiles and lists, virtual devices, Wildcards, Logic and the other toolkit products), entered once in the License Manager or in any one of them. See the Toolkit License page. A site license already includes it, and a Toolkit license can be upgraded 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/ntfy-notifications/

© 2026 to the present, Control Programming LLC. All Rights Reserved.

ntfy is a trademark of its owner. Crestron and Crestron Home are trademarks of Crestron Electronics, Inc. This extension is an independent product of Control Programming LLC and is not affiliated with, endorsed by or sponsored by the owner of ntfy.