Control Programming LLC

Release Notes

CPLLC Wildcard UDP Send

Version 5.00 · November 17, 2026

Product	CPLLC Wildcard UDP Send (Crestron Home extension)
Version	5.00
Release date	November 17, 2026
Where to find it	Add Device › Drivers › Custom Device › Control Programming LLC › Wildcard - UDP Send (listed as TCP Client), or search for “Wildcard - UDP”
Requires	Crestron Home OS 4.12 or later, and a network route from the processor to the device
Licensing	A Wildcard UDP Send license key (cpllc.net/product/wildcard-udp-send), 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 Wildcard UDP Send is a Crestron Home tile with a page of up to 10 commands, each of which sends a UDP datagram to a device. The installer enters the device’s IP address or hostname and port once, and each command in one installer setting as name|icon|payload: the button’s name, its icon (from the Crestron Home icon library) and the text to send, in which \xNN stands for any byte (\x0D for a carriage return, \x0A for a line feed). Pressing a command, on the page or from a sequence, sends its payload as one datagram and runs the command’s “Pressed <name>” event. It suits any device or program controlled by UDP messages: lighting and show controllers, AV processors, relay boards, and the CPLLC Wildcard UDP Listener on another processor.

Capabilities

Capability	What it does
Up to 10 installer-defined commands	Each command's name, icon and payload are whatever the installer enters in Command 01 – 10, in one box as name|icon|payload (for example Play|icPlay|PLAY\x0D\x0A). A command whose name is blank is not shown, so the page holds only the commands in use.
Text and bytes	The payload is sent as typed, with each \xNN (two hex digits) replaced by that byte (any value from \x00 to \xFF, sent as one byte), so a command can end with a carriage return or line feed or carry control bytes. Everything after the second | is the payload, so the payload may contain | itself.
One datagram per press	UDP has no connection: each press sends its payload once, as one datagram, to the address and port entered. Commands are sent one at a time in the background, so a slow network never holds up Crestron Home. Nothing is listened for.
Broadcast	The address may be a broadcast address (255.255.255.255, or a subnet's, such as 192.168.1.255), which sends each command to every device on that network listening on the port. A hostname is looked up again for every command.
Tile shows the last command	The tile's icon and status, and the control page's subtitle, show the last command pressed. Until the first press, the tile shows the installer's Tile Icon and Page Header Text.
PIN code	A keypad must be cleared before the commands are shown. The PIN can be changed from the keypad, and the commands lock again after a set time without touches.
Sequence actions	Select Command sends any command by its name; enable or disable the tile.
Events	One "Pressed <name>" event per command; 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

- A CPLLC Toolkit license key, one key per processor for every CPLLC toolkit product, now licenses this extension too, entered in its Enter License Key or once in the CPLLC License Manager.

- Installing asks one page fewer: the closing “CPLLC License Manager” page is gone, since the License Manager is not required. A copy that is already installed keeps the page in its settings; nothing else changes on an upgrade.
- First release. The UDP companion of the CPLLC Wildcard TCP Send: the same command list, tile, page, PIN code, Select Command sequence and Pressed events, sending each command as a UDP datagram.

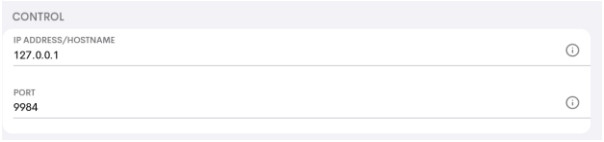
Installing

In Configure Pro, choose Devices › Add Device › Drivers, pick the room, and add Wildcard - UDP Send from Custom Device › Control Programming LLC (its entry reads TCP Client), or search for “Wildcard - UDP”. Name the device, then enter the device’s IP address or hostname and port on the first page and the options below on the second; enter the license key, or leave it blank on a site with a CPLLC site license. In Configure Pro the driver is under Add Device › Drivers › Custom Device › Control Programming LLC.

Installer Options

The first page asks for the connection:

Option	Description
IP Address/Hostname	The device’s IP address or hostname, or a broadcast address (default 10.10.10.10).
Port	The device’s UDP port, 1 – 65535 (default 9000).



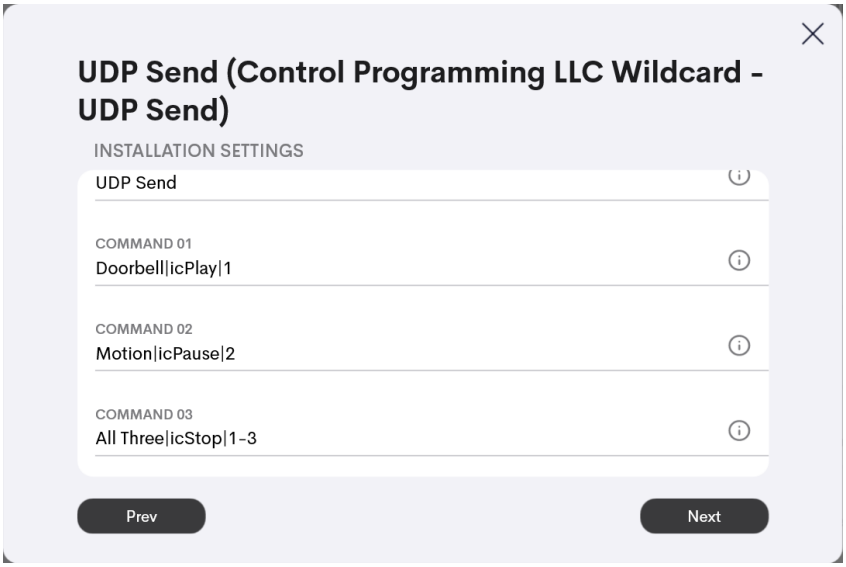
The first page: the device’s IP address or hostname and UDP port

The second page holds the tile and its commands:

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Wildcard UDP Send 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 commands 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.

Option	Description
Seconds Pin Active	How long the commands stay unlocked after the last touch (default 10 seconds; 0 also means 10).
Tile Icon	The tile's icon until the first command is pressed (default icList).
Page Header Text	The control page's title, and the tile's status until the first command is pressed. Blank shows "UDP Send".
Command 01 – 10	The command in one box, as Parameter 1|Parameter 2|Parameter 3: parameter 1 is the command name, parameter 2 is the icon, by its name in the Crestron Home icon library, parameter 3 is the payload, sent as typed with each \xNN replaced by that byte (for example Play|icPlay|PLAY\x0D\x0A sends PLAY, a carriage return and a line feed in one datagram). The name also names its event ("Pressed <name>") and its entry in Select Command. Leave the box blank to hide the command. Give each command a different name: Select Command sends the first one with the name chosen.

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.



Installer settings in Configure Pro: Commands 01 to 03 as name|icon|payload

Option	Example value	Bytes sent
IP Address/Hostname	192.168.1.50	
Port	9000	
Command 01	Play|icPlay|PLAY\x0D\x0A	50 4C 41 59 0D 0A
Command 02	Pause|icPause|PAUSE\x0D\x0A	50 41 55 53 45 0D 0A
Command 03	Stop|icStop|STOP\x0D\x0A	53 54 4F 50 0D 0A

Option	Example value	Bytes sent
Command 04 – 10	blank (not shown)	

Sequences

The Wildcard UDP Send adds these actions to Crestron Home sequences.

Action	Description
Select Command	Sends the command chosen from the list of command names, as a touch on the page does: its payload is sent, its Pressed event runs and the tile shows it.
Extension Enable / Extension Disable	Enables or disables the tile. A disabled tile shows Disabled and ignores the commands.

The Wildcard UDP Send reports these events, under its name in Actions.

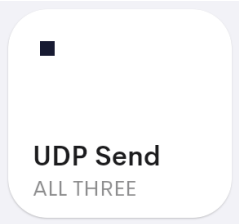
Event	Description
Pressed <name>	The command was pressed, from the page or by Select Command, and its payload was queued to send.
Extension Enabled / Extension Disabled	The tile was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered.

End-User Experience

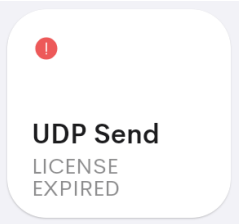
The tile shows the last command pressed: the icon and name the installer entered for it, with the name as the status. Touching the tile opens the control page.



Motion pressed



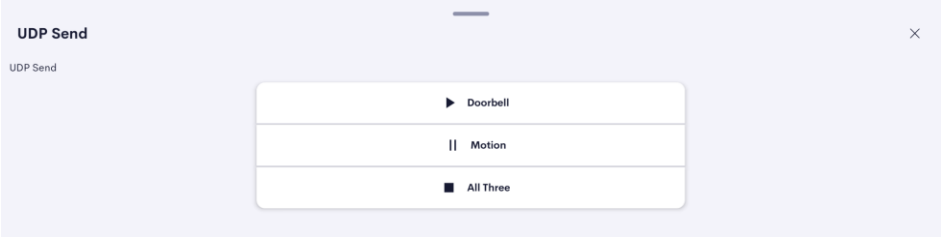
All Three pressed



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 commands send nothing. Entering a valid key, or adding a site license, clears it without a restart.

The control page lists the commands the installer named, in order (Command 01 first), each with the icon and name entered for it. Its title is the Page Header Text, and its subtitle is the last command pressed.



Control page with three commands: Doorbell, Motion and All Three

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 commands. 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

- UDP is not acknowledged: a datagram that is lost, or sent to a device that is off, is not noticed and not sent again. The tile shows the last command pressed, not the device's state.
- Nothing the device sends back is received. To act on UDP messages from a device, add the CPLLC Wildcard UDP Listener.
- Nothing is sent again after a restart: the tile shows the last command, but its payload is not repeated.
- A broadcast reaches only the networks the processor is on; routers do not pass it on.
- IPv4 only. A command pressed while a hostname cannot be found is not sent.
- A command's name and icon cannot contain |, which separates them.
- Select Command finds a command by its name, so two commands with the same name both send the first one's payload from a sequence.
- One address and port per tile: add another Wildcard UDP Send for each.
- Crestron Home lists the driver's connection as TCP Client; it sends UDP.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R, set up with Configure Pro 4.12 and used from the Crestron Home app 4.13.0 on Android. The extension was added with three commands sending 1, 2 and 1-3 to port 9984 of the processor itself, where a CPLLC Wildcard UDP Listener was installed: each command pressed on the control page sent its datagram, ran its Pressed event and set the tile, and the listener received it and raised the events it named. With the address changed to 255.255.255.255 the command went out as a broadcast and was received the same way. License Expired was checked on the processor. A hostname in place of an address was not tried.

Version History

Date	Version	Changes
2026-11-17	5.00	Licensed by a CPLLC Toolkit license key too
2026-11-12	5.00	• Installing no longer shows the closing CPLLC License Manager page • 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.

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Website	https://cpllc.net
Product page	https://cpllc.net/product/wildcard-udp-send/

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