Control Programming LLC

Release Notes

CPLLC DoorBird Relay

Version 5.00 · November 25, 2026

Product	CPLLC DoorBird Relay (Crestron Home extension)
Version	5.00
Release date	November 25, 2026
Where to find it	Drivers › Relay › Doorbird › RelayX
Requires	Crestron Home OS 4.12 or later, and a DoorBird video door station on the same network with a DoorBird user that has the API-Operator permission
Licensing	A DoorBird Relay license key (cpllc.net/product/doorbird-relay) or a CPLLC site license key (cpllc.net/product/site-license), entered in the extension's Enter License Key, or a site license key once in the CPLLC License Manager

Overview

The CPLLC DoorBird Relay pulses the relays of a DoorBird video door station from Crestron Home: the station's own door relays and those of any DoorBird I/O Door Controller paired with it. It talks to the station over DoorBird's published LAN API, with the address and login of a DoorBird user, and shows the relays the installer names as a page of buttons on a Crestron Home tile. A press pulses that relay, closing it for the time set in the DoorBird app, and runs its "Pressed <relay>" event; the Select Relay sequence action pulses any of them from a sequence, so a keypad button, a scene or a schedule can open a gate, a strike or a delivery door.

Capabilities

Capability	What it does
Up to 10 relays	Each relay the installer names (Relay 01 – Relay 10) gets a button on the control page; a blank box adds none.
Station and door controller relays	Relays 1 and 2 are the station's own; the relays of a paired DoorBird I/O Door Controller follow them, as the station lists them.

Capability	What it does
Pulse a relay	Pressing a relay on the page pulses it, closing it for the duration set for it in the DoorBird app.
Select Relay sequence	Pulses the relay chosen from the list.
Relay events	Each relay has a “Pressed <relay>” event, run each time it is pulsed from the page or by Select Relay.
Tile shows the last relay	The tile’s status and the control page’s subtitle show the last relay pulsed. A restart never pulses it again.
PIN code	A keypad must be cleared before the relays are shown. The PIN can be changed from the keypad, and the page locks again after a set time without touches.
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 login the DoorBird refuses now shows as Invalid Username or Password under the login fields when the settings are applied, as does a user without the watch always permission; before, the DoorBird only showed Offline.
- A valid license is no longer refused after a processor restart when the processor's network address was not readable yet, and the license is checked once more before the grace period ends.
- With a pin code set up, a sequence's If (Conditional) step can now test Pin Is Locked; it was listed in these notes before but never offered.
- When the device or its service cannot be reached as the driver starts (a processor back from a power failure before the network is), the driver now tries again by itself until it is linked; it used to stay unlinked until Reconfigure Driver or a reload.
- A sequence’s If (Conditional) step can now test this state: Extension Is Enabled. Crestron Home also lists a “Changed” event for each, raised whenever it changes.
- A setting can now be changed at once while the device it talks to cannot be reached. Before, the change could wait up to 90 seconds behind an attempt to connect, and a reload of the driver could hang.
- The tile shows the device offline when it can’t be reached, and online again as soon as it answers.
- 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.
- Rebuilt for Crestron Home OS 4 and 5 on Crestron’s Driver SDK V2 and the CPLLC 5.0 shared libraries.
- The DoorBird’s address, username and password are entered on the first page when the device is added in Configure Pro.

- Each relay box holds the relay's name, its icon and, optionally, the DoorBird relay it pulses, so relays can be shown in any order and a door controller's relay picked by its DoorBird name.
- A "Pressed <relay>" event per relay, named after the relay, replaces Relay 01 – 20 Pulsed; one Select Relay action replaces Relay Pulse.
- The tile shows the last relay pulsed.
- Optional PIN code, tile icon and page header.
- A pulse is sent once and never retried, so a slow reply can't open a door twice.
- Its own license key, or a CPLLC site license key, licenses the extension by itself, so the CPLLC License Manager is no longer required; it is still the convenient place to enter a site license key once for every CPLLC driver.
- Debug output can be turned on and off while the processor runs.

Installing

Version 5.00 is a new driver for Crestron Home OS 4 and 5; the 2.00 extension for Crestron Home OS 3 stays available on the product page. Add it from Drivers › Relay › Doorbird › RelayX. The first page asks for the DoorBird: its IP address or hostname and the username and password of a DoorBird user. Then enter the license key (or leave it blank on a site with a CPLLC site license), name the relays and set the options below. The extension reads the station's relays when the device is added.

In the DoorBird app, give the user the API-Operator permission and access to each relay it pulses (Administration › User). Without them the station refuses the call, and the extension reports an invalid username or password.

Installer Options

Option	Description
IP Address / Hostname	The DoorBird station's address on the network. It is reached over HTTP (port 80).
Port	Shown on that first page (default 80); not used.
Username / Password	A DoorBird user with the API-Operator permission and access to the relays (Administration › User in the DoorBird app).
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The DoorBird Relay 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 relays are shown. Blank means no PIN (the default).
Seconds Pin Active	How long the page stays unlocked after the last touch (default 10 seconds).

Option	Description
Tile Icon	The tile's icon (default icClose), by its name in the Crestron Home icon library.
Page Header Text	The control page's title. Blank shows "DoorBird Relays".
Relay 01 – Relay 10	One relay each, as relay text|icon|DoorBird relay, for example Front Gate|icDoorOpen|1. The text names the button, its event and its entry in Select Relay; the icon is the button's. The DoorBird relay is the station's name for it: 1 or 2 for its own relays, or the door controller's name for one of its relays (such as abcdef@1, shown in the DoorBird app). Left blank, Relay 01 pulses the station's first relay, Relay 02 its second, and so on. A blank box adds no button.

Sequences

The DoorBird Relay tile adds these actions to Crestron Home sequences.

Action	Description
Select Relay	Pulses the relay chosen from the list (relay). Its Pressed event runs and the tile shows it.
Extension Enable / Extension Disable	Enables or disables the tile. A disabled tile shows Disabled and pulses nothing.

The DoorBird Relay tile reports these events, under its name in Customize Actions & Events.

Event	Description
Pressed <relay>	The relay was pulsed, from the page or by Select Relay.
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.
Extension Is Enabled Changed	Crestron Home's own event for each of the states a sequence can test, raised whenever that state changes.

A sequence's If (Conditional) step can test these states:

State	Description
Extension Is Enabled	True while the extension is enabled, False while it is disabled.

End-User Experience

The tile shows the DoorBird Relays name and, once a relay has been pulsed, that relay's name as its status. Touching the tile opens the control page, which lists the relays the installer named, each with its icon; pressing one pulses 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, and the relays do nothing. Entering a valid key, or adding a site license, clears it without a restart.

Known Limitations

- Not yet tried with a DoorBird: CPLLC has no DoorBird station in its lab. The extension was built from the 2.00 code, which ran on DoorBird stations under Crestron Home OS 3, and from DoorBird's published LAN API.
- The DoorBird reports nothing back: the tile shows the last relay pulsed, not whether the door opened.
- The DoorBird API doesn't give the relays' names from the DoorBird app, so each relay is named in its installer option.
- How long a relay stays closed is set in the DoorBird app, not in Crestron Home.
- If the DoorBird is off or unreachable when the extension starts, a pulse fails until the extension is reloaded (Reload Driver in Configure Pro).
- Configurations and sequences from the 2.00 extension for Crestron Home OS 3 don't carry over.

Test Environment

Built for Crestron Home 4.013.0134 on a DIN-AP4-R. No DoorBird station was available, so 5.00 was released without a test against one; its DoorBird calls are the 2.00 extension's, which ran on DoorBird stations under Crestron Home OS 3, checked against DoorBird's published LAN API.

Version History

Date	Version	Changes
2026-11-25	5.00	• Pin Is Locked offered in If steps • License checks more forgiving at startup • A refused login shows under the login fields when the settings are applied
2026-11-23	5.00	The first link is tried again by itself when nothing answers (it stayed unlinked until Reconfigure Driver or a reload).
2026-11-21	5.00	States for a sequence's If (Conditional) step, each with a Changed event
2026-11-21	5.00	A settings change no longer waits while the device cannot be reached
2026-11-19	5.00	Devices show offline when they can't be reached, and online again when they answer
2026-11-12	5.00	Installing no longer shows the closing CPLLC License Manager page

Date	Version	Changes
2026-11-08	5.00	• Rebuilt for Crestron Home OS 4 and 5 on Driver SDK V2 • DoorBird address and login on the IP request screen • Relay boxes hold name, icon and DoorBird relay • Pressed <relay> events and Select Relay • Tile shows the last relay pulsed • PIN code, tile icon and page header • Pulse never retried • License Manager no longer required
2023-04-04	2.00.006	Added required CCD SDK JSON fields
2022-08-17	2.00.002	Bug fixes
2022-08-02	2.00.001	Upgraded to License Manager
2022-03-12	1.00.002	Fixed bug and added No Content feedback
2021-09-30	1.00.001	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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Product page	https://cpllc.net/product/doorbird-relay/

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