Control Programming LLC

Release Notes

CPLLC Wake-on-LAN

Version 5.00 · November 18, 2026

Product	CPLLC Wake-on-LAN (Crestron Home extension)
Version	5.00
Release date	November 18, 2026
Where to find it	Add Device › Drivers › Custom Device › Control Programming LLC › Wake-on-LAN, or search for “Wake-on”
Requires	Crestron Home OS 4.12 or later, and devices with Wake-on-LAN turned on in their network settings
Licensing	A Wake-on-LAN license key (cpllc.net/product/wake-on-lan), 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 Wake-on-LAN is a Crestron Home tile with a page of up to 10 devices, each of which it turns on over the network with a Wake-on-LAN “magic packet”. The installer enters each device in one installer setting as name|icon|MAC address, with the device’s IP address after a fourth | when it is on another network. Pressing a device, on the page or from a sequence, wakes it and runs the device’s “Pressed <name>” event. It suits media and theater PCs, media servers, NAS units, game consoles, and the TVs and receivers whose network control works only once they are on, so a sequence can wake them before it sends anything else.

Capabilities

Capability	What it does
Up to 10 installer-defined devices	Each device's name, icon and MAC address are whatever the installer enters in Device 01 – 10, in one box as name|icon|MAC address (for example Theater PC|icPower|00:11:22:33:44:55). A device whose name is blank is not shown, so the page holds only the devices in use.
Any MAC address layout	The MAC address may be written 00:11:22:33:44:55, 00-11-22-33-44-55, 0011.2233.4455 or 001122334455. One that is none of these is shown as an error under its box in Configure Pro.
Every network the processor is on	A press sends the magic packet to UDP port 9 as a broadcast on every network the processor is connected to (the LAN and the control subnet), three times, since a single UDP packet can be lost. Nothing has to be entered for the processor's own networks.
Devices on another network	For a device on a network the processor is not on, enter its IP address (or its network's broadcast address, such as 192.168.20.255) after the MAC address. The packet is then also sent there, as long as the router passes it on.
Tile shows the last device	The tile's icon and status, and the control page's subtitle, show the last device woken. 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 devices are shown. The PIN can be changed from the keypad, and the page locks again after a set time without touches.
Sequence actions	Select Device wakes any device by its name; enable or disable the tile.
Events	One "Pressed <name>" event per device; 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. Wakes up to 10 devices over the network by Wake-on-LAN, from the page or the Select Device sequence, licensed by its own key, a CPLLC Toolkit license or a CPLLC site license.

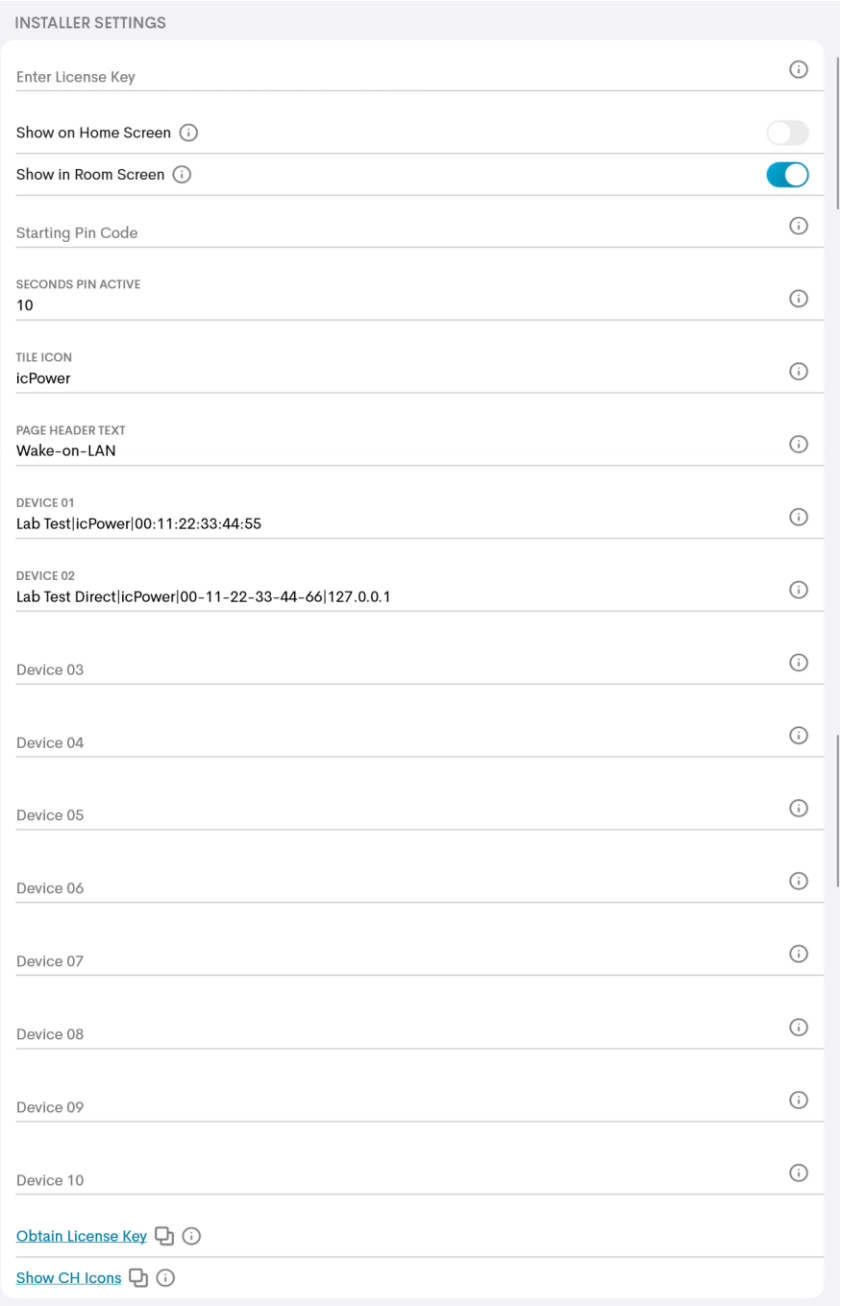
Installing

In Configure Pro, choose Devices › Add Device › Drivers, pick the room, and add Wake-on-LAN from Custom Device › Control Programming LLC, or search for “Wake-on”. Name the device, then enter the options below; enter the license key, or leave it blank on a site with a CPLLC Toolkit or site license.

Each device to be woken must have Wake-on-LAN turned on: in a PC’s BIOS or UEFI settings and its network adapter’s power settings, and in a TV’s or receiver’s network settings (often called Wake on LAN, Turn on via Network, Network Standby or Quick Start). Its MAC address is on the same settings page, on its label, or in the router’s list of connected devices. Use the wired network adapter’s MAC address: most devices wake only on their wired connection.

Installer Options

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The Wake-on-LAN 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 devices 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 devices stay unlocked after the last touch (default 10 seconds; 0 also means 10).
Tile Icon	The tile’s icon until the first device is woken (default icPower).
Page Header Text	The control page’s title, and the tile’s status until the first device is woken. Blank shows “Wake-on-LAN”.
Device 01 – 10	The device in one box, as Parameter 1|Parameter 2|Parameter 3|Parameter 4: parameter 1 is the device name, parameter 2 is the icon, by its name in the Crestron Home icon library, parameter 3 is the device’s MAC address, and parameter 4, which may be left off, is its IP address or its network’s broadcast address when it is on a network the processor is not on. The name also names its event (“Pressed <name>”) and its entry in Select Device. Leave the box blank to hide the device. Give each device a different name: Select Device wakes the first one with the name chosen.



Installer settings in Configure Pro: two devices, the second with an address

Option	Example value
Device 01	Theater PC|icPower|00:11:22:33:44:55
Device 02	Living Room TV|icPower|00-11-22-33-44-66
Device 03	Office NAS|icPower|0011.2233.4477|192.168.20.15
Device 04 – 10	blank (not shown)

Sequences

The Wake-on-LAN adds these actions to Crestron Home sequences.

Action	Description
Select Device	Wakes the device chosen from the list of device names, as a touch on the page does: its magic packet 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 wakes nothing.

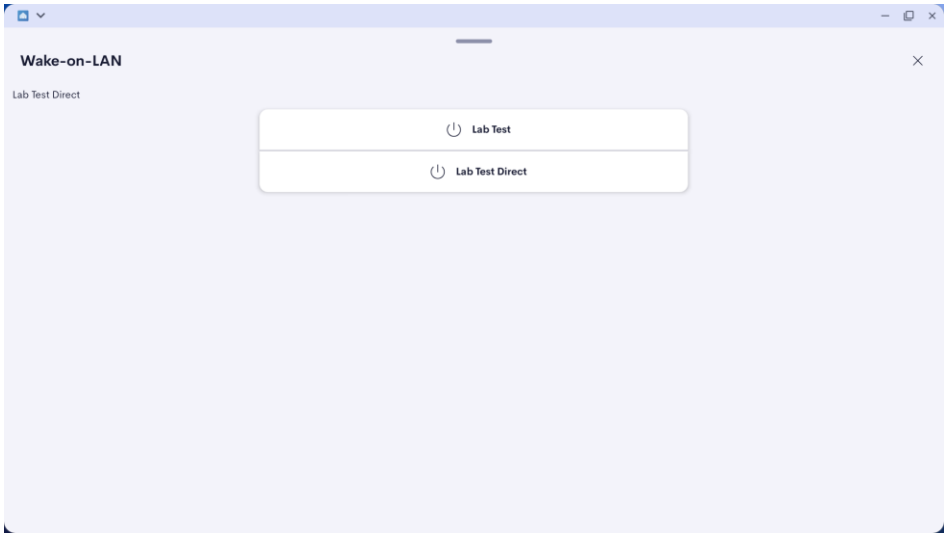
The Wake-on-LAN reports these events, under its name in Actions.

Event	Description
Pressed <name>	The device was pressed, from the page or by Select Device, and its magic packet 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.

A device needs some seconds to start after it is woken: in a sequence, put a wait after Select Device before the steps that control the device.

End-User Experience

The tile shows the last device woken: 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 devices the installer named, in order (Device 01 first), each with its icon and name. Its title is the Page Header Text, and its subtitle is the last device woken.



Control page with two devices

Without a valid license key or a CPLLC Toolkit or site license, the tile runs for a two-hour grace period after it starts; then it shows License Expired with an alert icon, and pressing a device sends nothing. Entering a valid key, or adding a Toolkit or 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 devices. 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

- Wake-on-LAN only turns a device on. To turn it off, use the device's own driver, or a CPLLC Wildcard that sends its off command.
- Nothing comes back from a woken device: the tile shows the last device pressed, not whether it is on. A device that is unplugged, has Wake-on-LAN turned off, or is already on is not noticed.
- Many devices wake only on their wired connection, and many TVs only when their network standby setting is on. Most devices on Wi-Fi do not wake.
- Broadcasts stay on the networks the processor is on. A device on another network is reached only through the address entered for it, and only when the router passes the packet on; many routers block it.
- The packet is sent to UDP port 9 only, and without a SecureOn password.
- Nothing is sent again after a restart: the tile shows the last device, but it is not woken again.
- IPv4 only. A device name and icon cannot contain |, which separates them.
- Select Device finds a device by its name, so two devices with the same name both wake the first one from a sequence.

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 on Android. The extension was added with two devices, the second with the address 127.0.0.1, and a CPLLC Wildcard UDP Listener was installed on port 9 of the same processor. Pressing each device on the control page ran its Pressed event and set the tile, and the listener received the 102-byte magic packet three times from each address it was sent to: the broadcast addresses of the processor's network and, for the second device, 127.0.0.1. The same was received with the extension's debug output turned off. An invalid MAC address was shown as an error under its box in Configure Pro. No PC or TV was woken: the packet was checked as received, not by a device turning on.

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/wake-on-lan/

© 2026 to the present, Control Programming LLC. All Rights Reserved.
Crestron and Crestron Home are trademarks of Crestron Electronics, Inc.