Finite Labs **Essentials**

Overview

> DISCLAIMER: This software is neither affiliated with nor endorsed by Control4.

Gives each light you pick a relay connection, so a driver that switches a relay can switch the light instead. Closing the relay turns the light on and opening it turns the light off, and the light's state reports back as the relay's. One driver instance covers all of a project's lights.

Index

- System Requirements
- Features
- Supported Light Proxies
- Installer Setup
  - DriverCentral Cloud Setup
  - Adding the Driver
  - Driver Properties
    - Cloud Settings
    - Driver Settings
    - Light Configuration
  - Driver Actions
- Programming
  - Connections
- Developer Information
- Support
- Changelog

System Requirements

- Control4 OS 3.3+

Features

- Single driver instance supports all your project's lights
- Dynamic relay bindings created per selected light
- Bidirectional state synchronization between light and relay
- Bulk hide all converted lights from navigators

Supported Light Proxies

- `light.c4i`
- `light_v2.c4i`
- `outlet_light.c4i`

Installer Setup

> Only a ***single*** driver instance is needed since you can multiselect lights in the properties and the relay bindings will be created dynamically. Adding multiple instances of this driver will work, but is not necessary.

DriverCentral Cloud Setup

> If you already have the DriverCentral Cloud driver installed in your project you can continue to Adding the Driver.

This driver relies on the DriverCentral Cloud driver to manage licensing and automatic updates. If you are new to using DriverCentral you can refer to their Cloud Driver documentation for setting it up.

Adding the Driver

1. Download the latest `control4-finite-labs-essentials.zip` from DriverCentral.
2. Extract and install the `light_relay.c4z` driver.
3. Use the "Search" tab to find "Light Relay" and add it to your project.

Driver Properties

Cloud Settings

Cloud Status (read-only)

Displays the DriverCentral cloud license status.

Automatic Updates [Off | *On*]

Enables or disables automatic driver updates via DriverCentral. Changing it on any item of this driver changes it on all of them.

Driver Settings

Driver Status (read-only)

Displays the current status of the driver.

Driver Version (read-only)

Displays the current version of the driver.

Log Level [0 - Fatal | 1 - Error | 2 - Warning | *3 - Info* | 4 - Debug]

Sets the logging level. Default is `3 - Info`. While a Support Code has Composer's Lua tab open, it also offers `5 - Trace` and `6 - Ultra`.

Log Mode [*Off* | Print | Log | Print and Log]

Sets the logging mode. Default is `Off`.

Support Code

Leave it blank unless Finite Labs support gives you a code: for an hour, it opens Composer's Lua tab to this driver and adds `5 - Trace` and `6 - Ultra` to Log Level.

Cloud Monitoring [Disabled | *Enabled*]

When Enabled, the driver sends Finite Labs a short report once an hour, and a report of each error it hits, at most 10 a minute. We use them to find and fix problems in the driver. Set it to Disabled to send nothing.

A report holds the controller's MAC address and OS version, the driver's name, version, device ID and DriverCentral license status, how much memory the driver uses, and the sizes of its largest internal tables. An error report also holds the error message and where in the driver it happened. Before a message is sent, anything in it that looks like a password, token, key, network address or email address is removed.

Light Configuration

Convert Lights To Relays

Select one or more light devices to create dynamic relay connections. Each selected light gets a corresponding relay output binding with bidirectional state synchronization.

Driver Actions

Reset Driver

Resets the driver state, clearing all persisted values and bindings.

It also turns Cloud Monitoring back on, as a fresh install has it.

Parameters:

- **Are You Sure?** [***No*** | Yes] - Confirmation to reset the driver.

Hide Lights In All Rooms

Hides all lights selected in Convert Lights To Relays from all room navigators. This is useful when lights are being controlled exclusively through their relay bindings and should not appear in the UI.

Diagnostics Snapshot

Prints a report in the Lua output, and sends it to Finite Labs only while Cloud Monitoring is Enabled.

Programming

Connections

Output Bindings (provider)

Output bindings are dynamically created for each selected light device. Each binding is a RELAY class binding named after the light device (with room prefix if available).

For example, selecting "Kitchen Light" and "Living Room Light" creates:

Binding	Class	Description
Kitchen Light	RELAY	Relay binding for Kitchen Light
Living Room Light	RELAY	Relay binding for Living Room Light

Connect these relay bindings to a driver that switches a relay.

The relay responds to OPEN (turn light off), CLOSE (turn light on), and TOGGLE commands. Light state changes are reflected back as OPENED/CLOSED notifications on the relay binding.

Developer Information



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Support

If you have any questions or issues integrating this driver with Control4, you can contact us at driver-support@finitelabs.com or call/text us at +1 (949) 371-5805.

Changelog

v20261112 - 2026-11-12

Added

- Added the Device Programmer, Light Relay, Network Requests, Sensor Aggregator, Sensor Multiplexer and Variable Expressions drivers to DriverCentral.