

Overview

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One segment of a WLED controller as its own Control4 light: on and off, level, color and white with fades, Advanced Lighting Scenes and keypad buttons, for that part of the strip only. It binds to the **WLED** driver, which keeps the one connection to the controller.

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System Requirements

- Control4 OS 3.3.2 or later
- The **WLED** driver, connected to the WLED controller the segment is on

Features

- A Control4 light for one segment: on, off, level and toggle, with the Default On level, Previous Level and Min and Max On Level
- Color and white as the segment's LEDs allow, so two strip types on one controller each get the light they need
- Fades up to 16 minutes, Advanced Lighting Scenes, Color On Mode and Dim-To-Warm
- On, Off and Toggle button links, with keypad LEDs that show the light's state
- A `Connected` variable for programming
- A segment that WLED renumbers or resizes keeps its light

Compatibility

The light offers what its segment's LEDs can light, as the `Segment` property shows it:

Shown	The light offers
RGB	Color
RGBW	Color, with whites on the white channel
RGB, tunable white	Color and color temperature
RGB, CCT	Color and color temperature
Tunable white	Color temperature
CCT	Color temperature
White	Level only
On/off	On and off only

Color temperature runs between the light's `Warm White (K)` and `Cool White (K)`.

> **Note:** WLED's own settings change what a segment reports. An RGBW strip with WLED's white mode set to calculate the white from the color reports RGB. The light follows such a change while it runs.

How segment lights and the controller light work together

- A segment light's level is its segment's own level. The **WLED** driver's light sets the controller's master level, which WLED applies on top of every segment, as in WLED's own app.
- A segment light is on while its segment is on and the controller is on.
- Turning a segment light on while the controller is off turns the controller on with only that segment lit; the other segments stay dark. With a fade, the segment and the controller fade up together, so it starts a little slower than on a lit controller.
- Turning off the last lit segment turns the controller off alone, so the controller light reads off.
- Segment lights in one scene, or in a room turned on or off at once, act together: each sees what the others just did.
- A color or a scene step on a segment light changes its segment only, and ends a WLED effect running on it. While an effect runs on its segment, the light keeps its own color.
- The controller light's commands still cover every segment. Turning the controller light on turns every segment on; this light's On turns on its segment only.

Installer Setup

> ⚠ Add the **WLED** driver for the controller first, and give the controller a DHCP reservation in the router.

DriverCentral Cloud Setup

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

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.

Driver Installation

1. Install the `.c4z` file from the same download as the **WLED** driver.

2. Use the "Search" tab to find the "WLED Segment" driver and add one to the room each part of the strip lights.
3. On the "Connections" tab, bind its **WLED Controller** connection to the segment's connection on the **WLED** driver. The **WLED** driver has one for each segment, named as the segment is named in WLED.
4. After a moment `Driver Status` shows `Connected` and `Segment` shows the segment's LEDs.

Driver Properties

Cloud Settings

Cloud Status (read-only)

Displays the DriverCentral cloud license status.

Automatic Updates [Off | *On*]

Turns automatic driver updates on or off. Changing it on one WLED driver changes it on all of them.

Driver Settings

Driver Status (read-only)

Displays the state of the segment:

- `Connected`: the **WLED** driver tells this light its segment.
- `Connecting`: the light is waiting to hear from the **WLED** driver, or the **WLED** driver is still reaching the controller.
- `Not connected to the WLED controller`: the **WLED** driver cannot reach the controller.
- `Segment not found`: the controller no longer has the segment. The light drives nothing until a segment is back on the same LEDs.
- `Bind this light to a WLED driver's segment connection`: the **WLED Controller** connection is not bound.
- `No active license`: the **WLED** driver has no active DriverCentral license, so the light drives nothing and stays at the level it had until a license is active.

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`. It turns itself off after three hours.

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 Settings

Warm White (K) [1900 - 10091, default: *2700*]

Sets the color temperature of the segment's warmest white. WLED does not know its strip's white points, so the light's color temperature range runs between this and `Cool White (K)`.

Cool White (K) [1900 - 10091, default: *6500*]

Sets the color temperature of the segment's coolest white.

Segment Info

Segment (read-only)

Displays the segment this light controls: its name, its LEDs and what they light, for example `Left cabinet: LEDs 0-59, RGBW`.

Driver Actions

Diagnostics Snapshot

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

Programming Variables

Variable	Type	Description
Connected	BOOL	True while the segment is there and the **WLED** driver is connected to the controller

Connections

Light (provider)

The Control4 Light proxy connection. The light is online while its segment is there and the **WLED** driver is connected to the controller. While offline it keeps the level it last showed.

WLED Controller (consumer)

Binds to one of the **WLED** driver's segment connections.

Button Links

Connection	Description
On Button Link	Turns the light on when triggered
Toggle Button Link	Toggles the light when triggered
Off Button Link	Turns the light off when triggered

A keypad button bound to a button link shows whether the light is on, in that button's on and off colors. They are set in Composer under the light's **Button and Button Connection Status LED Colors** (Top for On, Bottom for Off, Toggle for Toggle). With the project's default colors, the Off button is lit while the light is off.

Developer Information



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Support

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

Changelog

v20261117 - 2026-11-17

Added

- Added the WLED and WLED Segment drivers
- Added a Control4 light with color and white, fades, Color On Mode and Dim-To-Warm
- Added Advanced Lighting Scenes and keypad button links with LEDs

- Added WLED's effects, palettes, presets and playlists to programming and the Extras menu, with preset cycling from keypads
- Added a light for each segment, with the WLED Segment driver
- Added finding controllers on the network, and following a controller when its address changes
- Added live updates when the WLED app, a button or another system changes the controller
- Added a Support Code property, Cloud Monitoring and a Diagnostics Snapshot action