

LG WebOS TV Driver

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Overview

Two-way IP control for LG WebOS TVs. Provides power, input selection, volume, mute, channel, navigation, and app launching, with live feedback so Control4 always reflects what the TV is actually doing.

The driver communicates with the TV entirely over the local network and selects the best available control method automatically. No cloud services, accounts, or internet access are required.

Requirements

- LG TV running WebOS 3.0 or later (2016 models and newer)
- TV and controller on the same network, reachable directly
- Static IP address or DHCP reservation for the TV
- Control4 OS 3.3.0 or later

TV Setup

Complete these settings on the TV before adding the driver. Menu wording varies slightly between model years.

Setting	Value	Why
Support → IP Control Settings → Network IP Control	On, then Generate Code	Faster, more reliable control and accurate power status
Support → IP Control Settings → Wake on LAN	On	Required to power the TV on

General → Always Ready	Enable	Keeps the TV reachable while off
General → External Devices → TV On With Mobile	Enable	Required for reliable power on

Important: The code from Generate Code can only be read once, and generating a new code immediately replaces the previous one. Note it before leaving the menu.

SDDP appears in the same menu but is not required by this driver.

These settings are not required if the driver will be used with **IR Setting** set to **IR Full**, which does not use the network. See Infrared below.

Installation

Step 1: Add the Driver

1. Add the LG WebOS TV driver to your project in Composer Pro
2. It appears under the Audio/Video category

Step 2: Configure the Connection

1. Enter the TV's address in the **IP Address** property
2. Enter the code from TV Setup in the **IP Control Code** property, or leave blank if the TV does not offer it

Step 3: Pair

1. With the TV powered on, run the **Pair TV** action
2. Accept the prompt that appears on the TV using its remote

Note: The MAC address is filled in automatically once the TV is reachable. Pairing persists across driver updates and controller reboots.

Step 4: Make Connections

1. In the Connections tab, bind source devices to the appropriate inputs
2. Add the TV to its room

Connections

- **HDMI 1 - HDMI 4**
- **Antenna/Cable** - built-in tuner
- **Component**
- **AV** - composite
- **WebOS App 1 - 10** - bind TV app drivers here; selecting the input launches that app
- **Audio Output** - digital optical and stereo
- **Room Selection**

Infrared (optional)

Some TVs do not wake reliably from a network power-on. Wake on LAN can be blocked by network equipment, and a TV that has lost its Always Ready setting will not respond to it at all. The **IR Setting** property allows infrared to cover power, or to take over entirely.

Using any IR mode requires an IR emitter bound to the driver's **IR** connection and positioned at the TV.

IR Full is for the rare case where IP control is unavailable or has stopped working - for example if the TV's pairing has been cleared by a firmware update, or Network IP Control has been switched off. In this mode the driver does not use the network at all, so none of the TV Setup network settings are required.

In IR Full, note the following:

- **Setting a specific volume level is not available.** Volume up and down work normally, but the volume slider will not move. Infrared has no way to set a value directly.
- **Mute may lose sync.** The driver tracks whether the TV should be muted, but if mute is changed using the TV's own remote the two can disagree until mute is used again from Control4.
- The TV cannot report its state back, so power and input are shown as last commanded rather than measured.

Properties

Property	Type	Description
IP Address	String	Address of the TV on the local network
IP Control Code	String	Code from the TV's Network IP Control menu
MAC Address	String	Used to power the TV on. Filled in automatically
Client Key	Read-only	Pairing key, saved automatically
Home Screen On Watch	List	Whether selecting the TV as a source opens its home screen
Home Screen Delay Seconds	Number	Wait after power on before switching, allowing the TV to finish starting
Reconnect Interval Seconds	5-60	Base retry interval. Grows to a maximum of 60 seconds
WOL Retry Count	1-10	Power on attempts, spaced one second apart
Connection Status	Read-only	Disconnected, Connected, Registered, or Reconnecting
Driver Version	Read-only	Current driver version
Memory Usage	Read-only	Driver memory usage, refreshed hourly

IR Setting	List	Controls whether infrared is used alongside IP control. Disabled - IP only. IR WOL Fallback - if the TV does not respond within 8 seconds of a power-on request, an IR power-on is sent. IR On/Off - power is sent over IR, everything else over IP. IR Full - all commands over IR and IP control is not used. Default is Disabled
Cloud Monitoring	List	Periodically reports memory usage, internal table sizes, and application errors to a remote monitoring service, to identify memory leaks and runtime issues. No identifying information is collected or sent. Default is Enabled
Log Mode	List	Off, Print, Log, or Print and Log. Resets to Off after 3 hours
Log Level	List	0 (Fatal) through 5 (Trace)

Actions

Action	Description
Pair TV	Starts pairing. Accept the prompt on the TV
Home Screen	Opens the TV's home screen
Input List	Opens the TV's input list
Send Key	Sends a remote key to the TV
Launch App	Launches an app by its identifier
Send Toast	Displays a message on screen
Discover Apps	Lists the apps installed on the TV in the log
Check Memory	Reports current driver memory usage

Programming

The TV appears as a standard display in Control4 programming. Power, input, volume, mute, and channel are available as commands and conditionals. Home Screen, Input List, and Send Key are available for driving the TV's own interface from a scene or button.

Troubleshooting

TV does not power on

- Re-check Wake on LAN, Always Ready, and TV On With Mobile in TV Setup
- Some TVs reset these after a firmware update
- Confirm the TV and controller share a subnet

Status shows Reconnecting with a high number

- Normal while the TV is off. The driver keeps retrying and reconnects on its own
- If it persists while the TV is on, verify the IP address and that Network IP Control is still enabled

Pairing prompt does not appear

- The TV must be on and awake, not in standby
- Power cycle the TV and run Pair TV again

No response to commands

- Confirm the IP address has not changed. Use a DHCP reservation
- Check for client isolation or inter-VLAN filtering between the TV and controller
- Re-generate the code in Network IP Control and update the driver property

Viewing Logs

1. Set **Log Level** to "4 - Debug" or "5 - Trace"
2. Set **Log Mode** to "Print" or "Print and Log"
3. View output in Composer's Lua tab

Version History

Version 20260826

- Stability improvements

Version 20260824

- Documentation updates

Version 20260819

- Added optional infrared control, selectable with the IR Setting property
- Improved power state accuracy and reconnection behaviour

Version 20260803

- Initial release

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