Tuya

Overview

This driver connects Control4 to Tuya cloud-connected smart devices. It signs in to a Tuya account with a QR code, discovers the devices in that account, and creates a connection for each supported device. Add a Tuya subdriver for each device and bind it to its connection. **Auto Setup** can do this for you.

The Tuya driver is the gateway. Install it once per project, then add the device subdrivers described below.

Requirements

- Control4 OS **3.4.1** or higher
- Tuya Smart or Smart Life app account
- Tuya-compatible devices that are online in the Tuya app

Setup

1. Install the driver

Install the **Tuya** driver on the Control4 controller. It handles authentication and device discovery for every Tuya subdriver.

2. Authenticate with Tuya

1. Open the **Tuya** driver properties in Composer Pro.
2. Get the **User Code** from the Tuya Smart or Smart Life app:
    - Tap **Me** in the bottom right corner.
    - Tap the settings icon in the top right corner.
    - Choose **Account and Security** > **User Code**.
3. Enter the code in **User Code**.
4. Run the **Generate QR Code** action.
5. Open the link that appears in **QR Code** in a web browser.
6. In the Tuya Smart or Smart Life app, tap **+** in the top right corner and tap **Scan**.
7. Scan the QR code and tap **SUBMIT** to log in.

8. **Authentication Status** shows “Authenticated”.

> The QR code expires after a few minutes. If authentication fails, generate a new QR code and try again.

3. Discover devices

After authentication the driver discovers the devices in the account automatically. Check **Discovered Devices** to see how many were found. Run **Refresh Devices** if none appear or to reload the list after you add devices in the Tuya app.

4. Add and bind subdrivers

Run **Auto Setup** to add and bind a subdriver for each discovered device in one step. The driver adds the matching subdriver, binds it to the Tuya driver, and places it in the same room as the Tuya driver. Only connections without a subdriver are processed, so you can run **Auto Setup** again after you add devices to the Tuya account and refresh devices.

To bind a subdriver manually, add it in Composer Pro and bind its **Tuya** connection to the matching connection on the Tuya driver.

Subdriver	Use for
Tuya Light	Lights, dimmers, and RGB bulbs
Tuya Switch	On/off switches and outlets
Tuya Sensor	Temperature, humidity, motion, and contact sensors
Tuya Thermostat	Thermostats, heaters, and minisplits
Tuya Fan	Fans. Pick the speed-count variant that matches the device, and a reversible variant when you need direction control
Tuya Blind	Blinds and curtains with position and open/close/stop
Tuya Blind (Tilt)	Tilt-capable blinds with separate lift and tilt devices

> **Auto Setup** adds **Tuya Blind** for blinds. Use **Tuya Blind (Tilt)** when you want separate lift and tilt devices for the same blind. Fans are not included in **Auto Setup**, so add the matching **Tuya Fan** variant manually. A fan/light combination keeps a separate light connection, so bind **Tuya Light** and **Tuya Fan** independently.

Multi-channel devices

Devices with several independent control points, such as power strips and multi-gang switches, are split into one connection per channel. Each channel is named after the device, for example “Power Strip - Channel 1” through “Power Strip - Channel 4” for a four-outlet strip. Bind each channel to its own subdriver.

Scenes

Scenes created in the Tuya Smart or Smart Life app are available in Control4 programming. Use the **Activate Scene** command and pick a scene from the list, which is loaded from the Tuya app. The scene runs and affects every device in it. Devices in a scene do not need to be supported by this driver.

Properties

Property	Description
Cloud Status	DriverCentral license status (read-only)
Automatic Updates	Allow automatic driver updates when available
Driver Version	Packaged driver version (read-only)
Log Level	Logging verbosity; resets to Off after about 1 hour when not Off
User Code	Code from the Tuya Smart or Smart Life app, used to generate the QR code
Authentication Status	Current authentication state (read-only)
QR Code	Link to the sign-in QR code (read-only)
MQTT Status	Current connection state for live device updates (read-only)
Discovered Devices	Count of supported, unsupported, and total devices found (read-only)
Last Sync	Time of the last device sync (read-only)

Actions

Action	Description
Auto Setup	Adds and binds the correct subdriver for each unbound device connection
Generate QR Code	Creates the sign-in QR code and shows its link in **QR Code**
Refresh Devices	Reloads the device list from the Tuya account
Reconnect MQTT	Drops and re-establishes the live update connection
Activate Scene	Runs a Tuya scene
Print Discovered Devices	Prints the discovered devices to the Lua output

Connections

The Tuya driver creates one connection per supported device. Each connection uses the class that matches its subdriver.

Class	Subdriver
`TUYA_LIGHT`	Tuya Light
`TUYA_SWITCH`	Tuya Switch (or Tuya Light)
`TUYA_SENSOR`	Tuya Sensor
`TUYA_THERMOSTAT`	Tuya Thermostat
`TUYA_FAN`	Tuya Fan
`TUYA_BLIND`	Tuya Blind and Tuya Blind (Tilt)

Programming

Commands

Command	Description
Activate Scene	Runs the selected Tuya scene

Support

If you have questions or issues with this driver, contact us at support@solidified.co or call/text +1 (561) 444-9960. You can also submit a support ticket at DriverCentral.

Changelog

v20261116 - 2026-11-16

Fixed

- Fixed Auto Setup failing with an error and not adding subdrivers.

v20261107 - 2026-11-07

Fixed

- Fixed Blind open/close (up/down) for curtain switches that only support open, stop, and close without position reporting.

v20261021 - 2026-10-21

Added

- Added Thermostat Temperature and Humidity connections for external sensors.
- Added Thermostat Switch Mode property for on/off-only devices.

v20261007 - 2026-10-07

Added

- Added Fan support (1–6 speed variants, optional reverse).

v20260927 - 2026-09-27

Added

- Added Switch support for breaker / switchable outlet devices.
- Added Switch support for multi-gang touch panel switches.

Fixed

- Fixed Blind position feedback not updating correctly for some devices.
- Fixed Thermostat ambient temperature showing incorrectly on some devices.

Changed

- Changed Auto Setup to use the light subdriver for switch devices.
- Changed blinds so Control4 shows them as moving while they travel.

v20260909 - 2026-09-09

Fixed

- Fixed MQTT TLS certificate verification failure against EU brokers.

v20260907 - 2026-09-07

Fixed

- Fixed Switch multi-gang switches where every channel commanded the first load.

Changed

- Changed Print Discovered Devices to include functions and status.

v20260904 - 2026-09-04

Fixed

- Fixed MQTT failing to connect when the driver .c4z is renamed.

v20260828 - 2026-08-28

Added

- Added Blind Closed Deadband and Open Deadband properties for motors that stop short of their travel limits and report a fully closed or fully open blind as partially open.

Changed

- Improved cloud connection recovery after network or power interruptions.

v20260706 - 2026-07-06

Added

- Added Thermostat Print Diagnostics action.

Fixed

- Fixed Auto Rename Driver aggressively resetting device names in Composer.
- Fixed a race condition that could cause devices to lose configuration after controller reboot.
- Fixed Thermostat ambient temperature reading on certain devices.

v20260623 - 2026-06-23

Fixed

- Fixed Sensor human presence sensors not reporting motion to contact bindings.

v20260519 - 2026-05-19

Added

- Added Thermostat Setpoint Unit setting for certain devices where setpoints will not change correctly from Control4.

Changed

- Improved performance and fixed miscellaneous bugs.
- Improved authentication refresh resilience for edge-case expiration timing.

v20260401 - 2026-04-01

Fixed

- Fixed certain thermostat devices not reporting current temperature.

v20260331 - 2026-03-31

Added

- Added Tuya Blind (Tilt) driver for blinds with tilt functionality.

Fixed

- Fixed some blinds not fully opening or closing.
- Fixed keypad LEDs not reflecting the current light device state.

Changed

- Renamed Device Count property to Discovered Devices and included more information.

v20260310 - 2026-03-10

Added

- Added Motor Direction property to the blind driver.

v20260302 - 2026-03-02

Added

- Added Blind driver for blinds, curtain, and shade devices.

v20260301 - 2026-03-01

Added

- Added Thermostat driver for HVAC, heaters, and mini-split devices.

v20260213 - 2026-02-13

Added

- Added Scene support through programming on the core driver.

v20260212 - 2026-02-12

Added

- Added Auto Setup action for quick setup.
- Added Print Discovered Devices action to print a full list of known devices to the Lua output.

v20260210 - 2026-02-10

Added

- Added support for Daylight Agent.
- Added a property to auto-rename the driver to match the Tuya/Smart Life app.

v20260131 - 2026-01-31

Changed

- Improved performance for light and switch devices.

v20260128 - 2026-01-28

Fixed

- Fixed support for load group drivers.
- Fixed rounding issue for brightness and color temperature.

v20260123 - 2026-01-23

Added

- Added support for Control4 switch and dimmer load group drivers.

Fixed

- Fixed light driver button actions.

Changed

- Improved dynamic capability detection for switch and light devices.

v20260111 - 2026-01-11

Changed

- Improved compatibility for a broader range of dimmer switches.

v20260106 - 2026-01-06

Fixed

- Fixed compatibility for light devices with non-standard value ranges.

v20251209 - 2025-12-09

Fixed

- Fixed light driver capabilities so they work properly in advanced lighting scenes.

v20251124 - 2025-11-24

Added

- Added configurable brightness control mode for RGB lights to improve compatibility with different device types.
- Added support for motion sensors (PIR), contact sensors, and human presence sensors.

v20251123 - 2025-11-23

Fixed

- Fixed status update processing.

Changed

- Improved performance for light, sensor, and switch devices.
- Improved capability detection for sensor and switch devices.

v20251121 - 2025-11-21

Fixed

- Fixed device state refresh when rebinding subdrivers (correctly identifies devices by binding ID).

Changed

- Improved RGB/color capability detection for lights by querying device functions during refresh.

v20251117 - 2025-11-17

Added

- Initial release.