Shelly Suite Installation and Usage Guide

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Overview

Shelly is a leading IoT manufacturer known for its broad range of cost-effective retrofit devices for lighting, power, sensing, energy management, and automation. Its product lineup includes relays, mmWave presence sensors, radiator valves, contact inputs, keypad/buttons, smart plugs, RGB and LED controllers, smart bulbs, motion sensors, flood sensors, smoke and gas detectors and more.

Chowmain's Shelly driver suite for Control4 provides integration across all generations of Shelly devices. We support the full range of Shelly IP-based products, including both Wi-Fi and Ethernet devices, with reliable two-way control and feedback over the local LAN. We also support Shelly BLU devices via BT Home, using compatible Shelly Gen3+ or Pro Gen2 devices as the Bluetooth gateway, or the Shelly USB BLU Gen3+ Gateway.

With support for Shelly Gen1, Gen2, Gen3, Plus, Pro, and BLU devices, this driver suite gives Control4 integrators a flexible and scalable way to deploy Shelly's affordable automation hardware across a wide variety of applications.

Optional Shelly Cloud connectivity is also supported for provisioning to provide additional flexibility for deployment and management.

Features

Driver Features

- Supports Huge Range of Shelly module functionality
- Native Color Wheel with graphical White Temperature Selection (V2 Light Driver / OS3.3.0+ Required)
- Native Color Advanced Light Scenes Support (V2 Light Driver / OS3.3.0+ Required)
- Optional Integration with Shelly Cloud via the Shelly Cloud Agent for improved compatibility with sleepy devices, Self-Healing Capability and Auto-Detection of devices (Modules can still be set up manually).
- Optional Local discovery and quick setup via local LAN.
- Bulk Auto-Setup of devices (for best results, it is recommended devices are associated with cloud)
- Huge range of Events, Variables and Button Links to control devices
- Blind and Lighting Support, with Advanced Lighting Capabilities
- Control Relays via Lights
- Easy Push Notifications and Email Notifications for Common Events (Requires 4Sight)
- Easy Announcements
- Smart Calibration of White Temperatures on Lighting and Thermostats for Maximum compatibility
- Fast response rate, with optimised support for Generation 2 / Shelly NG devices.
- Advanced One-Way Auto-Renaming capabilities from cloud or Shelly module
- 1st and 2nd Generation Sleepy device support
- Support for BTHome devices and Sensors using Gen3+ or Pro Gen2 devices as a gateway.
- Virtual Component Support: Boolean, Numeric, Text and Enum Support with a dedicated Component Controller driver.

Shelly Features Supported

- BTHome Support using Gen3+ or Pro Gen2 devices as a gateway, including support for a wide variety of BTHome Sensors and Devices. Support for multiple simultaneous BTHome Gateways
- Virtual Components: Boolean, Numeric, Text and Enum Support
- Shelly Presence Sensor (including Object Detection and Object Count)
- Inputs / Switches via CONTACT SENSORS, Button Links and wide variety of events
- Relays via RELAY Bindings and events
- Temperature and Humidity Integration
- Thermostat support (includes TRV)
- Lighting Control (includes Advanced Lighting Scenes)
- Blind Control. UP/DOWN/STOP
- Energy Monitoring
- Open/Close Reed States
- AC/DC Voltage Monitoring
- GAS Monitoring

- Flood Sensor Support
- Light Level Monitoring
- Battery Monitoring
- And More

Tested Modules

PLEASE NOTE: Untested modules may also operate.

Shelly Module (Generation 1)

- Shelly 1 Relay Module
- Shelly 1L Relay Module
- Shelly 2.5 Blind/Relay Module
- Shelly i3 Input Module
- Shelly Button Remote Control
- Shelly Dimmer 2 Light Module
- Shelly Door/Window 2 Reed Switch
- Shelly Duo Light Bulb
- Shelly Duo GU10 Light Bulb
- Shelly EM Energy Monitor
- Shelly Flood Sensor
- Shelly GAS Sensor
- Shelly Humidity & Temperature Sensor
- Shelly Motion Occupancy Sensor
- Shelly Motion 2 Occupancy Sensor
- Shelly PlugUS Outlet Plug
- Shelly RGBW2 Light Module
- Shelly Uni Implant Module
- Shelly Vintage Light Bulb
- Shelly TRV

Shelly Module NG (Generation 2+)

- Shelly Pro 1
- Shelly Pro 1PM
- Shelly Pro 2
- Shelly Pro 2PM
- Shelly Pro 3
- Shelly Pro 4PM
- Shelly Pro Dual Cover / Shutter PM
- Shelly Plus 0-10v Dimmer
- Shelly Plus 1
- Shelly Plus 1 Mini

- Shelly Plus 1PM
- Shelly Plus 1PM Mini
- Shelly Plus 2PM
- Shelly Plus i4
- Shelly Plus i4 DC
- Shelly Plus Add-On
- Shelly Plus H&T
- Shelly Plus Plug IT Outlet Plug
- Shelly Plus Plug S Outlet Plug
- Shelly Plus Plug UK Outlet Plug
- Shelly Plus Plug US Outlet Plug
- Shelly Plus Smoke Alarm
- Shelly Plus Wall Dimmer US
- Shelly Plus RGBW PM

Shelly ModuleNG (Generation 3)

- Shelly 1 Gen3
- Shelly 1PM Gen3
- Shelly 2PM Gen3
- Shelly DALI Dimmer Gen3
- Shelly Dimmer Gen3
- Shelly Dimmer 0/1-10V PM Gen3
- Shelly H&T Gen3
- Shelly 1PM Mini Gen3
- Shelly 1 Mini Gen3
- Shelly PM Mini Gen3

Shelly ModuleNG (Generation 4)

- Shelly 1 Gen4
- Shelly 1PM Gen4
- Shelly 1 Mini Gen4
- Shelly 1PM Mini Gen4
- Shelly EM Mini Gen4
- Shelly Flood Gen4
- Shelly Presence Gen4

Shelly Blu Devices / BTHome

- More information on supported Shelly Blu devices can be found in: https://shelly.guide/bthome-components/
- Shelly BLU Button Tough 1
- Shelly BLU Button1

- Shelly BLU Distance
- Shelly BLU Door/Window
- Shelly BLU Gateway Gen3
- Shelly BlU H&T
- Shelly BlU Motion
- Shelly Blu RC Button 4
- Shelly Blu RC Button 4 ZB

Please note: BLU Gateway Gen1 does not support BTHome and cannot be used as a gateway device

Quick Setup Guide

Before you start

- Bindings and events are created dynamically based on configuration fron the Shelly web interface. These are only created after connection to control4 has been successful
- Control4 OS 3.3.0+ is required for Shelly Gen2+/Pro firmware 1.8 to operate correctly.
- Light V2 requires OS3.3.0 or later. OS3.4.3 is the minimum recommended for correct operation of this driver. Gen2+ / Module NG devices require Light V2.
- In the event of problems, use the "Display Related Diagnostics from a Shelly Driver" to assist with common issues.
- DO NOT share the same Shelly account between different installations and clients. This can cause security issues and other issues. It is recommended to create a separate Shelly account for each installation and client.
- Custom Action URL's on Gen 1 devices may be overwritten by the driver. Ensure any important actions are moved to Control4 events
- This driver will always use LAN for communications. Cloud is used to improve reliability and self-healing. It is particularly recommended to use Cloud if battery devices are deployed

Do NOT rely on Notifications and Email notifications as the sole method of Safety, or Home Security notifications. These functions are built in for convenience solely, and to provide additional information. The emergency functionality in this driver (including triggering events) requires configuration and it's reliability is dependant on a large range of factors (both unforeseen and configuration). The integrator agrees and acknowledges that Chowmain takes no responsibility for any security/safety failures related to this driver. The integrator agrees that they have advised the customer of potential security failures related to this driver, and agrees that any liability for such security failures falls on the integrator and/or end-user. The integrator agrees to indemnify Chowmain for any loss or damage suffered due to any indirect, incidental and/or consequential damages, lost/stoken property, lost business, lost/stolen savings, lost profits or revenues resulting from a breach of this agreement and shall include all costs, expenses and reasonable attorney's fees incurred.

Initial Setup

1. Install all C4Z drivers using Driver=>Add or Update Driver or Agent from control4 (you can install all drivers at once with select all). Copying to the Control4 driver folder may not be sufficient.
2. Commission All WiFi Shelly Devices using Shelly App. If you have problems locating the device on the shelly app, wake the device, connect to the device's temporary wifi, and use your browser to connect to 192.168.33.1. Manually set the WIFI Client details.
3. Setup Blu / BT Home devices following the info in: https://shelly.guide/bthome-components/
4. Upgrade all Firmware. Some devices have known issues with old firmware versions. For BLU devices, it is recommended to use the BLE Debug App to update firmware: https://play.google.com/store/apps/details?id=cloud.shelly.bledebug&hl=en_AU or https://apps.apple.com/us/app/shelly-ble-debug/id6449539118

5. The Primary Control4 Controller should be set up with a static/reserved IP if possible to avoid connectivity issues
6. Please note, on Shelly Module (Gen 1) devices, Custom Action URL's may be overwritten. Ensure all actions performed by Custom Action URL's (if any), are moved to Control4 after configuration.

QuickSetup of WiFi/Lan Devices

Auto Setup / With Shelly Agent (Recommended)

This method is the fastest and most reliable. It has two discovery mechanisms available, which can be combined for the best reliability / performance:

1. Add Shelly Agent to Control4 (using the Agents Tab in Composer)
2. For Cloud discovery (strongly recommended):
    1. This allows the cloud to perform self-healing reliably. Sleepy devices may be unreliable without this option. Modules will continue to operate if internet is unavailable, and Cloud is used exclusively for discovery / commissioning assistance only.
    2. Ensure All devices on the Shelly App are linked to cloud. For existing devices on your network which have been added, but aren't connected to cloud, you can log in via the phone app, click the device, Internet settings, cloud and associate to cloud / Enable cloud
    3. From http://control.shelly.cloud login, User Setup, Authorisation Cloud Key, and copy both Server and key into the Cloud Driver.
3. For LAN discovery:
    1. This is recommended to be used in combination with Cloud discovery, to allow self-healing if the cloud is unavailable. However, in some cases, may be unavailable, which is why both are recommended. However, naming is generally not available
    2. Simply Enable Local Discovery in the Agent
4. Set Default AutoSetup Room Property in Control4 for Shelly Cloud Driver
5. It is recommended to wake up all devices
6. Run Auto Setup. All Drivers will be added automatically. Some Sleepy devices such as the Shelly Button will need to be woken up (by pressing the button), before they are correctly configured. Re-run if modules are added in the future. If all modules aren't added, use the Refresh action to pull the latest data
7. We recommend enabling Auto-Notifications for Battery Warning and Emergency Alarm in the Cloud Agent (Requires 4-Sight)

Manual device Setup (Without Shelly Agent)

Please note, with this method, static IP for the shelly devices and C4 Controller are recommended.

1. Add a corresponding Shelly module driver for each device you wish to add. Use Shelly Module for Generation 1 devices, and Shelly NG Module for Generation 2 devices (please note, drivers are not intercompatible. Shelly NG will not work on Generation 1 modules).
2. Type in the Device ID and IP Address. Details will be prefilled, and drivers will be added automatically.

3. Wake all sleepy devices to ensure they are auto-setup correctly.

Setup of BLE / BTHome Devices

Please note, Shelly Blu Gateway Gen1 is not supported as a gateway device. Only Gen3+ or Pro Gen2 devices can be used as a gateway for BTHome devices

1. For the Latest information, refer to: https://help.chowmain.software/portal/en/kb/articles/control4-shelly-setting-up-shelly-blu-bthome-devices
2. Ensure all WiFi devices are setup and working correctly
3. Follow BTHome Setup instructions from Shelly: https://shelly.guide/bthome-components/ . For greater redundancy, it is recommended to add the BTHome device to multiple Shelly BTHome Gateway Devices.
4. It recommended to update the firmware using Shelly's BLE Debug App before attempting integration: https://play.google.com/store/apps/details?id=cloud.shelly.bledebug&hl=en_AU or https://apps.apple.com/us/app/shelly-ble-debug/id6449539118
5. Add the new BTHome Agent to Control4, and Auto Setup devices (in the Agents Tab). The available BTHome devices should show as available
6. For more advanced control capabilities, BTHome devices will add SHELLY_COMPONENT connections which can be bound to the Shelly Component Controller driver for more advanced control/integration.
7. To determine basic device location within the home, use the CLOSEST_GATEWAY_ID variables. Please note, there are limitations to this feature.

Virtual Components

Virtual components provide compatible Shelly devices with custom variables which can be controlled via scripting or third parties. To integrate with these components, we create SHELLY_COMPONENT bindings which can be connected to our Shelly Component Controller driver. This provides a number of connections to bind to for control. Commands are also provided to change the Components values

- For the latest setup information, refer to: https://help.chowmain.software/portal/en/kb/articles/control4-shelly-using-virtual-components

Color Wheel

For Color Wheel support, ensure you are using the latest Light V2 driver (requires OS3.3.0+), which is automatically deployed on OS3.3.0 during auto-setup. Previously, webview integration was provided to provide direct access to the interface, however, new firmware may no longer correctly support this option

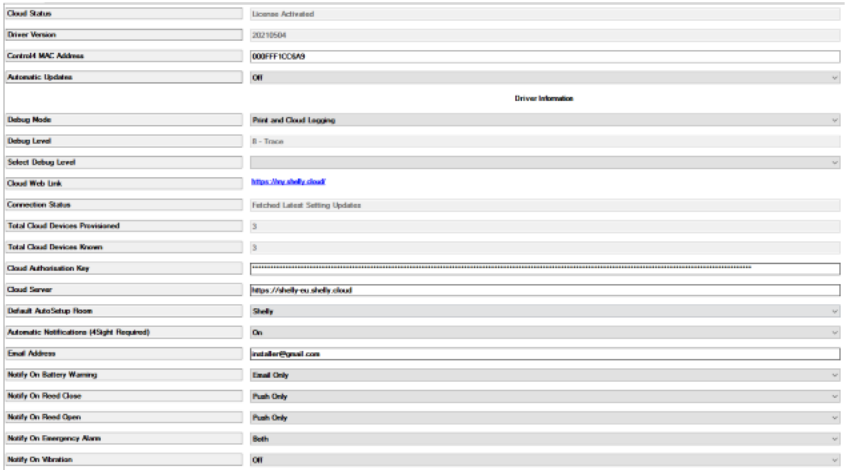
Settings

Properties

Common Properties

- Cloud Status: Licencing Status of the Driver
- Driver Version: Version of the Driver
- Automatic Setup: Whether or not the driver will automatically update the driver
- Control4 MAC Address: MAC Address of the C4 Controller
- Debug Mode: Enable different types of debugging modes for driver.
- Debug Level: Verbosity of debugging. ERROR is the least verbose
- Error Reporting: Enables Automatic fault reports to Chowmain
- Auto-Rename: Auto-Rename the driver. You can either receive the names from Cloud, Module, or any available.
- Auto-Rename External Drivers: Used by the Module Drivers. Optionally Auto-Renames some connected Non-Chowmain 3rd party drivers too such as the Thermostat Display Driver

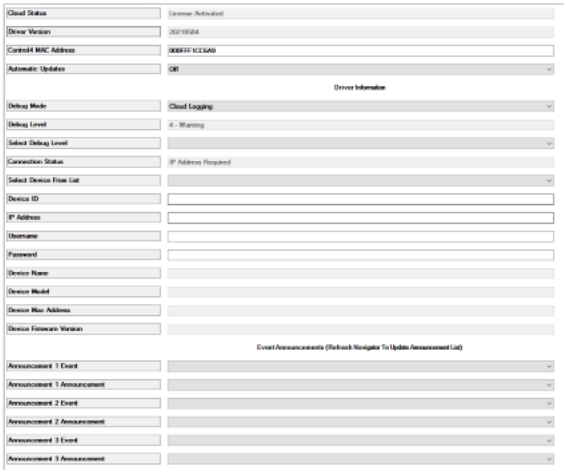
Shelly Agent (Optional)



- Cloud Web Link: Address to log into the cloud
- Connection Status: Current State of the connection
- Cloud Authorisation Key: Authorisation Key required to connect to the cloud. Available via the Phone APP or http://control.shelly.cloud . To obtain token in cloud, go to User settings, Security, Autorisation Cloud Key, get key.
- Cloud Server: Cloud Server host for your shelly modules. Available via the Phone APP or http://control.shelly.cloud . To obtain, go to User settings, Security, Autorisation Cloud Key, get key.
- Enable Local Discovery: This enables discovery of shelly devices on the local network. This is useful for devices that are not associated to the cloud. We strongly recommend Shelly Cloud instead for enhanced operation
- Default AutoSetup Room: The default room that Auto-Setup Devices will be added to.

- Automatic Notifications (4Sight Required): Requires 4Sight. Sends Notifications via push or/and Email (in the Email Address Field)
    - Notify On Battery Warning: Sends a notification when module reaches 10% battery
    - Notify On Reed Close: Used by Reed Switch Sensors. Notifies when Reed Switch touches magnet (Closed State)
    - Notify On Reed Open: Used by Reed Switch Sensors. Notifies when Reed Switch seperates from magnet (Open State)
    - Notify On Emergency Alarm: Flood, Gas and other emergency Alerts.
    - Notify On Vibration: Used for Tamper Events - Please note: On some devices, this floods Control4 with Vibration notifications.
- Total Network Devices: Total number of Shelly devices connected to the cloud
- Provisioned Network Devices: Total Shelly Devices connected to the cloud with corresponding Control4 Drivers
- Unprovisioned Network Devices: Total Shelly Devices connected to the cloud without corresponding Control4 Drivers
- Total Network Drivers: Total Control4 Shelly Drivers installed
- Invalid Network Drivers: Total Control4 Shelly Drivers installed which do not have a corresponding cloud device
- Provisioned Network Drivers: Total Control4 Shelly Drivers installed with a corresponding cloud device
- Unprovisioned Network Drivers: Total Control4 Drivers installed which are uninitialised

Shelly Module and Shelly Module NG



Please note, Additional properties will be hidden or shown after Setup has been completed.

- Provisioning State: New to 1.7.5+ firmware. This indicates the provisioning state of the device. This affects whether the device can be provisioned or if it has already been locked down
- Module Web Link: Link to the module's web address (if available)
- Select Device From List: Used to Auto-Setup driver via Cloud Driver infomation. Modifying this will auto-commission the driver
- Device ID: Used for Auto-Healing by Cloud Driver. Represents the Device ID

- IP Address: Current IP address of the device. Automatically updated by Cloud-driver in the event of a change
- Username and Password: Used for passworded shelly modules. Most installers do not require this functionality
- Outbound Connection Security: This specifies whether the outbound connection to the Shelly device is secure (SSL/TLS). 1.8.X Gen 2 and later firmware requires Secure connections
- Event Engine: This indicates whether the driver is using the New / Enhanced Event Engine (recommended) or Old / Legacy Event Engine. The New / Enhanced engine provides improved reliability. More info is available in https://help.chowmain.software/portal/en/kb/articles/control4-shelly-programming-changes-events-fire-incorrectly
- Connection Delay Rate (milliseconds): Shelly Module Only. Regulates the rate upon which commands are sent (up to 4 simultaneous commands are allowed). Some old devices may require longer delays.
- Poll Rate (milliseconds): Shelly Module Only. Regulates the rate upon which the device is polled for updated status information. Increased poll rates may reduce battery life, increase network usage and may consume more C4 Controller CPU. Longer poll rates will delay feedback in Control4. Some status items are updated instantaneously irrespective of the poll rate.
- Announcement 1-3 Event: List of Events which can automatically trigger a specified Announcement.
- Announcement 1-3 Announcement: List of Announcements in the Announcements Agent to be automatically triggered by a specified Event (Navigator Refresh required to update this list)

Blinds

- Control Type: Select the type of blind control you wish to use. Toggle provides Open/Close/Stop. Level provides fixed percentage amounts (and requires blind calibration). Toggle is default, but Level is recommended if blind is calibrated
- Movement Timing: Select the type of movement timing you wish to use. Module Provided is provided by the module itself but may be incorrect. Manual allows custom timing.
- Manual Movement Time (ms): If Movement Timing is set to Manual, this allows you to set the movement time in milliseconds. This is the time it takes for the blind to move from 0% to 100% (or vice versa).

All Dimmable Light drivers:

- Button Link Behavior: Set Button Link Behavior. On/Off will only allow keypads to turn on and off the light and channels. Dimmable allows users to push and hold the button to trigger light levels up or down . Some keypad types may be incompatible with Dimmable.
- Button Link Ramp Rate (Percent): When Button Link Behavior is set to Dimmable, this adjusts the ramp speed. Increasing this number increases the dpeed of ramping.
- Color Temperature (k) - Minimum / Maximum: Set the Color Temperature range supported by the device.

Actions

Shared

- Display Diagnostics: Use to run basic troubleshooting. Diagnostics assistance will be provided in the LUA Output window
- Display Extended Diagnostics: Runs Advanced / Extended Diagnostics that take longer periods to run. You should generally only run this if Display Diagnostics and Related Diagnostics doesn't help (or advised by Chowmain)
- Display Related Diagnostics: Runs and Displays Basic Troubleshooting for all installed Shelly Drivers and Devices. Diagnostics assistance will be provided in the LUA Output window
- Submit Diagnostics: Use to send diagnostic information to Chowmain. A reference number will be provided in the LUA Output window

Shelly Cloud Agent

- Auto Setup: Add all Known Connected Devices On Cloud to Control4 and add drivers. May require a Refresh Information Beforehand.
- Bulk Update Module Connection Delay Rate: Bulk update the module connection delay rate for all connected devices. This regulates the maximum rate that commands can be sent to the module. This only affects Generation 1 devices / Shelly Module drivers. ShellyNG drivers are instantaneous.
- Bulk Update Module Poll Rate: Bulk Update the Poll Rate for all connected devices. This regulates the maximum rate that we poll devices for information. This only affects Generation 1 devices / Shelly Module drivers. ShellyNG drivers do not require polling.
- Display Networked Devices: Shows Information about known Devices from Cloud in the Lua Console
- Firmware Update All Devices: Sends a Firmware Update request to all linked devices in Control4.
- Fetch Device Information: Updates Available Device Information From the Cloud. Requires Valid Authentication Information (may take 30 seconds)
- Purge Known Devices: Purges all known devices from the Cloud Driver. This will not delete the drivers from Control4. This is useful to clear out old devices which are no longer installed.
- Wipe Touchscreen Webview Cache: Troubleshooting step to wipes the Webview cache on T3/T4 touchscreens (use if Webview output appears incorrect, particularly after firmware upgrades).

Shelly Module

- Auto-Setup. Setup/Update information for this module
- Firmware Update: Update Firmware on module

Shelly Lights

- Calibrate Dimmer Temperature: Used by Lightbulbs with Color Temperature support to identify the minimum and Maximum color temperatures. This process is normally automatic. Not Supported by All Devices

Shelly Thermostat

- Calibate: Calibrate the Thermostat (if supported by device).

Module NG Input Button Links And Events

- Input State X - Push/Release:
    - When button is pushed, it sends a pushed command, and when released, it sends a release or click command.
    - This is generally only used in Button Mode, to allow push and hold functionality, and standard click functionality.
- Input State X - Button State Changed / Toggled:
    - Triggered when input state changes (On to Off or Off to On)
    - Generally used for Switch Mode and bound to toggle actions
- Input State X - On: Triggered whenever input is set to on state.
    - Normally only useful for Button mode
    - Not commonly used, unless tracking presses in Button Mode
- Input State X - Off: Triggered whenever input is set to off state.
    - Normally only useful for Button mode
    - Not commonly used, unless tracking presses in Button Mode
- Input State X - Single Push:
    - Triggered when input is tapped once.
    - This will only work in Button mode
- Input State X - Double Push:
    - Triggered when input is tapped twice quickly.
    - This will only work in Button mode
- Input State X - Long Push:
    - Triggered when input is held for a long time.
    - This will only work in Button mode

Module NG Input Contact Sensors

- Input State X - Contact Sensor: Reflects the pressed state of the contact sensor. Normally only useful for momentary buttons

Troubleshooting

For troubleshooting tips, known issues, and solutions to common problems, please visit our official Knowledge Base:

https://help.chowmain.software/portal/en/kb/driver-support/control4/shelly

The Knowledge Base is regularly updated with troubleshooting guides, tips and resolutions for Chowmainsoft drivers and integrations.

Shelly 1.8.X Gen2+/Pro Devices are not operating correctly

Firmware 1.8 introduces new security features to comply with EU regulations.

- This requires Control4 OS 3.3.0 or later to operate correctly. OS 3.2 and earlier may not support the required security features
- Ensure you are running the latest version of the Shelly drivers. Previous versions are not supported

Auto-Setup is Not operating

- Ensure you are running OS 3.2 or later (OS 3.3.0 or later is required for full-feature support).
- Ensure all devices have been added to your Control4 Controller directly using the Add or Update Drivers Menu.
- Sleeping devices may need to be woken up.

There is missing information In the Module On Auto-Setup

- Ensure you are using Shelly Module for all Generation 1 devices, and Shelly Module NG for Generation 2. The drivers are not interchangeable.
- Try Pressing Auto-Setup a second time.
- Ensure the device is running the latest firmware
- The Module may be sleeping. You may have to wake it up manually, or wait until it wakes up if it's inaccessible. On some devices, wakeup sometimes only occurs 12-24hrs later.

Auto-Notifications are not sending.

- Auto-Notifications requires a 4Sight subscription. If 4Sight is applied, check the spam directory of your email.

The Shelly App on phone doesn't discover my Shelly devices

1. If the device uses a battery, it may need to be woken up (connect to a charger, or use the wakeup button)
2. Try Factory Resetting the Device
3. You may need to try connecting the device manually:

1. From Computer, the device creates a wifi network (normally called shelly*). Connect to this network
2. From your web browser, connect to http://192.168.33.1
3. Manually setup your wifi details in Network settings on the module.
4. Try from the Shelly Mobile app again (it should show up under discoverable). If you're planning to use the Cloud functionality of Shelly Agent (recommended), ensure you link the device to the cloud (do not turn on MQTT).

Web Views are not functioning correctly on Touchscreens

- The use of web views are no longer recommended due to firmware compatibility issues.
- Control4's T4 (or later) touchscreens are strongly recommended for WebView running the latest firmware.
- We have uncovered an issue with Shelly firmware on the T3's, where the Time becomes hidden from the top right corner of the screen, and some features, such as the Color-wheel on the Touchscreen Webviews ceases operation (but the webpage operates correctly on computer).
    - To rectify, try using the "Wipe Touchscreen Webview Cache" Action after completion, in the Module driver or Cloud Driver to wipe the touchscreen caches.

The Opened Event for Door and Window Reed Switch doesn't work

- The Opened Contact Closure will work for all opened events, however, you may need to combine the "opened" event with "LUX Level Dark" and "LUX Level Twilight". In this case, the Opened Event actually represents "Opened in Daylight", and Lux Level Dark and Lux Level Twilight represent Opened in Dark and Twilight respectively. The closed event however operates in all Day, twilight and dark.

I'm unable to find the Shelly Cloud or Shelly BTHome Agent Driver

- The Agent Drivers can be added and located under the Agents tab in Composer (not under the normal drivers section)

BT Home Devices are not showing up in the BTHome Agent

- Ensure the device acting as the BTHome gateway has been added to Control4 as a Module NG driver.
- Ensure that driver version 20260407 or later is used. Earlier versions do not support BTHome devices.
- Ensure the latest firmware is installed on the gateway device, and the BTHome device.

Frequently Asked Questions

Is the Shelly cloud / Internet Required to use this driver?

- Shelly WiFi / LAN devices do not rely on cloud services to function (and the Shelly Agent is entirely optional). Cloud Services however enhance the self-healing capabilities of the drivers. As of version 20221202, discovery and self-healing via LAN are also supported (however, it is still strongly recommended for sleepy devices to also be added to the Cloud and use static IP's). Cloud or Cloud+LAN is the recommended operation of the driver
- Shelly BLU supports BTHome which is a local protocol and does not require cloud / internet connection. Our driver enables multiple devices to also act as BTHome gateways to extend the signal locally.

What requirements exist for Gen2+ Shelly Devices?

- 2nd Generation Shelly Devices require firmware 11.0 or later for correct operation (Sleepy devices require functionality not available in earlier versions)
- For optimum operation, 2nd Generation Sleepy devices also require a static IP for the primary C4 Controller. Whilst the Shelly Agent driver can assist with Self-Healing of IP's, self-healing may take a few hour.
- Sleepy Devices must be woken up for Auto-Setup to take place

What hardware will this work on?

- The latest Shelly Device Compatibility information is available from our Device Compatibility Knowledgebase Article

Where can i purchase Shelly Hardware from?

Shelly is distributed worldwide through a number of resellers.

You can purchase Shelly hardware directly from:

- OzSmartThings - Australia
- Alloys - Australia
- 4Tronics - Brazil
- Shelly EU - Europe
- Shelly USA - USA
- Digital Bay Tech - USA

What is the best practices for the Shelly RGBW hardware?

Shelly has produced a best practices guide upon our request to make sure that you utilise the product correctly which includes recommendation on power supplies, LED strip voltage/wattage, installation diagrams and more. You can find the document linked below.

Shelly RGBW 2 Best Practices

What is the difference between Shelly_module and shelly_module_ng

- Shelly Module is used exclusively for Shelly Gen 1 WiFi Devices. Shelly Module NG is used for Generation 2+ WiFi Devices and Pro (Gen2+) devices.

Can the Shelly Smoke Plus be muted?

- Whilst we can view the state of whether the Smoke alarm is muted or not, it is not possible to mute the alarm from Control4. Being able to do so remotely could potentially be a safety risk anyway, because if it were done remotely, residents at the home would be potentially unaware that the alarm had been turned off remotely.

Can you give us some examples of how we could use this driver?

- All Shelly products are wifi based so installation is easy.
- Shelly offers affordable DIN-Mounted wifi modules which can be easily installed in existing switch boards, without the requirement for ethernet connectivity within the board.
- Shelly products provide 1 or more relay outputs or contact closure inputs.
- The Shelly1 product is perfect for lighting if you have to utilise the existing switches. Utilise the input for a momentary or a toggle state button to control the relay output. Connect the input to the existing switch and the output to the lighting circuit. Simple
- Shelly provides a range of smart plugs and smart plugs designed for EU and US based plugs and 110-240v bulbs with E27 and GU10 fittings.
- Webview interfaces provide an extended user interface on T3/T4 touchscreens for color temperature and color wheel support)
- A Shelly 2.5 can control blind motors for up, down and stop control.
- Control your garage door using a Shelly1 with Wifi based control and feedback (note requires a reed switch for feedback).
- Monitor your home for gas and flood with Shelly Gas and Shelly Flood products. Have it notify you via Chowmain's easy push notification and email notifications (requires 4sight).
- Easy announcement integration means the battery based Shelly Button can be used as a doorbell or can be used to playback 'come to dinner' and other announcements.
- The battery operated Shelly Humidity and Temperature product provides humidity and temperature bindings. Use it with the temperature display driver for feedback. Works upto 50m outdoors and 30m indoors.

- The battery operated Shelly Door & Window Sensor to provide feedback when doors and windows open.
- The battery operated Shelly Motion provides easy to install occupancy sensing with 1-3 years of battery life
- Push and email notifications on low battery levels for all battery devices.

I want to try this driver out before buying it?

All Chowmain drivers for Control4 come with a 90 day trial.

Licensing

Marketplace

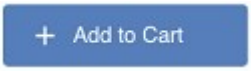
To Purchase drivers

Chowmain Drivers are only available to authorized dealers. Integrators can sign up to a Chowmain account via the Chowmain Website. Authorization of dealers can take up to 48 hours; however, you can trial the drivers without an account.

1. Navigate to the login page of Chowmain website: Chowmain - Login
2. Sign in using credentials provided after sign up request approval
3. Ensure you are logged into the website using website's header: registration and sign up buttons are replaced with cart icon and user icon

4. Navigate to the drivers page: Chowmain - Drivers
5. Alternatively, you can use the global search input in the header to find the driver

6. Search for and locate the driver you are interested. Click *Add To Cart*



7. Once you have added all drivers to your cart, navigate to the shopping cart: Chowmain - Cart
8. Click *Checkout & Pay*. Follow the directions

9. Purchase confirmation will be sent to your email, all orders can be viewed in the Chowmain - Orders
10. Once the payment is processed, the driver will be available in your account: Chowmain - My Drivers

Create Chowmain Project and obtain Project Code

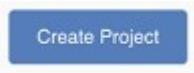
Note:

- Showroom Projects contain all drivers of its Control System
- Paid licenses cannot be assigned to Showroom Projects
- Only 1 Project is required per home
- If the Project has already been created, do not create a second one
- If controller already has a Project code created by another installer, please contact the original installer for access. If the original installer is unavailable, contact Chowmain - Support

- If the controller has been replaced and the license needs to be transferred to a new controller you can do so yourself via the website

1. Ensure you are signed into the Chowmain Website
2. Navigate to Dashboard => Projects

3. Click *Create Project*:

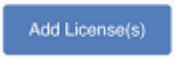


4. Complete the details for the Project (*Project Name*, *Customer Name*, *Control System*)
5. Upon completion, take note of the **Project Code**. This is required to link the Control System to the newly created project

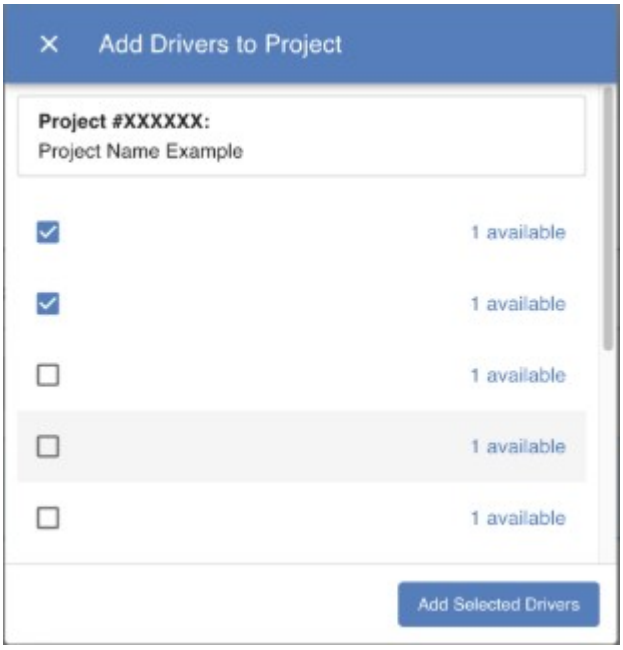
To Assign purchased drivers to Project

NOTE: Driver must already be purchased and a Project Code must be created as per above 'Create Chowmain Project and obtain Project Code' section

1. Navigate to Chowmain Software - Projects. Click the *Project Name* you wish to assign the driver to

2. Click the *Add License(s)*: 

3. Select Drivers you wish to assign to the project, and click *Add Selected Drivers*:



4. Alternatively you can add in drivers via the [Chowmain - Drivers]

5. The driver will be added to the project with the license status *Licensed*

Control4

To Download and install Chowmain drivers:

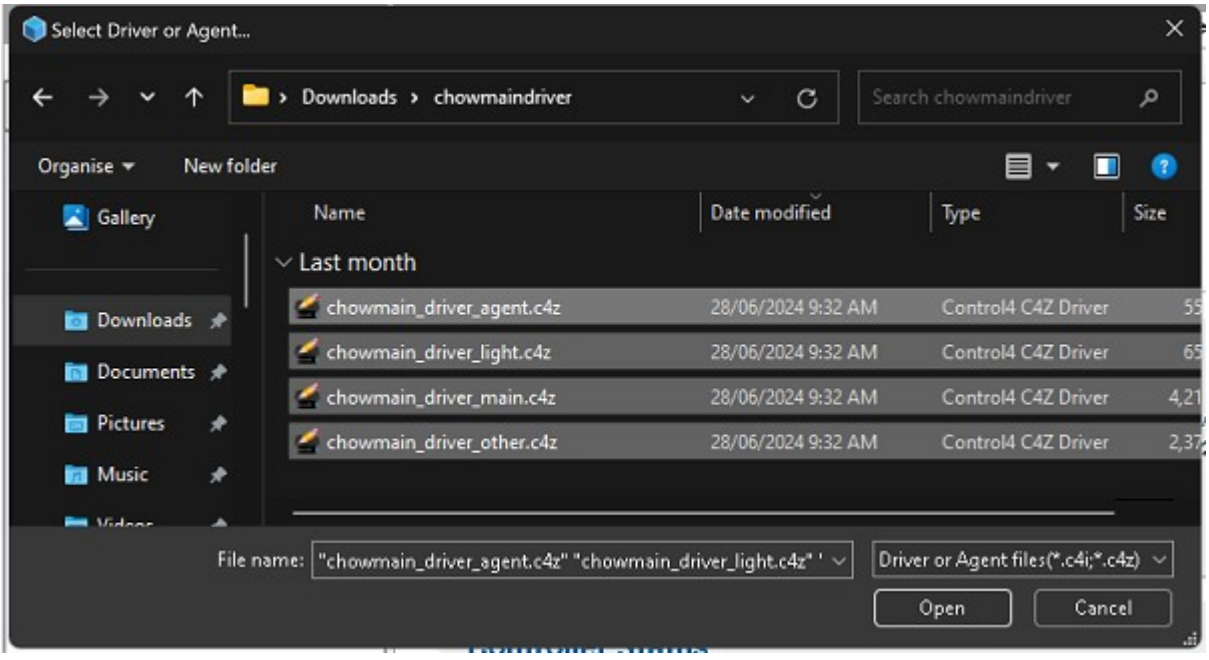
NOTE: Licensed Chowmain drivers come with a complimentary 90-day trial period. To license the driver, installation of the Chowmain Project Agent is required. The Project Agent is also required for automatic driver updates. Throughout the 90-day trial period, Chowmain Drivers operate without any limitations. After this period, the driver will be disabled unless properly licensed.

All Chowmain Licensed drivers require a minimum of OS 3.1.3 to operate correctly unless specified.

1. Visit: https://chowmain.software
2. Search and locate your driver, and click into the details by clicking the picture or heading.
3. Select Download. And extract the contents of the downloaded Zip file to a temporary directory

4. **Please note: For many drivers, it is no longer recommended to copy the contents of most modern drivers directly to your Control4/drivers directory.** The recommended method of updating drivers or installing drivers is in Composer Pro, navigate to the Driver=>Add Or Update Driver Or Agent menu item.

5. Locate the temporary directory containing your C4Z files. You can select and install/update all drivers simultaneously by selecting one and using Ctrl+A. Alternatively, click the top driver+shift+click the bottom. Click the open button. You will be alerted when drivers are installed



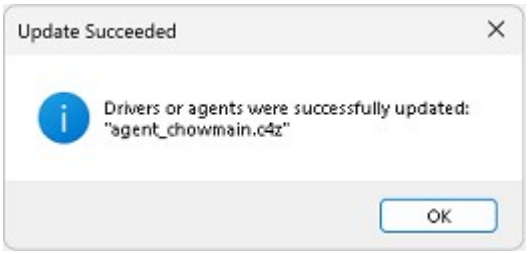
6. Install drivers as per normal. Please note, some drivers may be agents, and you must use the Agents tab in Control4 to install the driver. Composer Express does not support Agents, and Composer pro is recommended for all installers.

Install Chowmain Agent

Installation of the Chowmain Agent is required to licence drivers

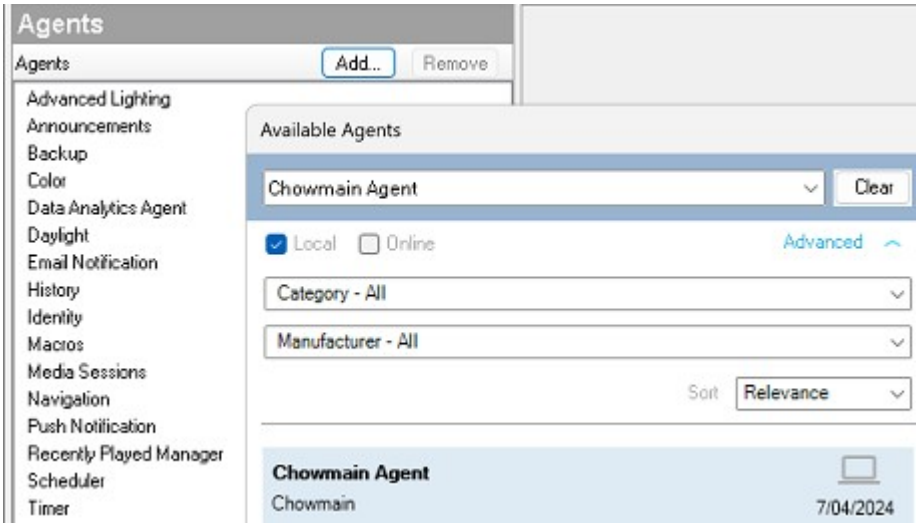
1. Download Chowmain Project Agent From the [Chowmain Project Agent Page]
2. Open Project In Composer Pro. Composer Express does not Support Agents and cannot be used
3. Navigate to the *Driver=>Add Or Update Driver Or Agent* menu item

4. Add the *agent_chowmain.c4z* file

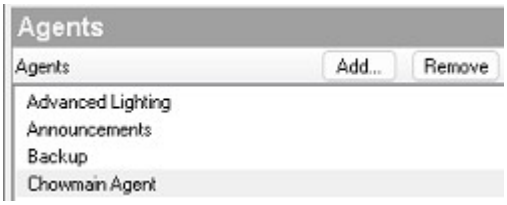


5. Navigate to the Agents View in Composer Pro

6. If *Chowmain Agent* is not already added to project, select the *Add* button in Agents and add the *Chowmain Agent* to Project



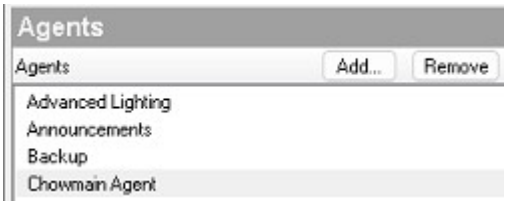
7. *Chowmain Agent* should be listed in the project.



Link Project Code to Control4 Project

1. Ensure Chowmain Agent is installed on primary Control4 Controller. If not, follow the previous information
2. Navigate to the Agents View in Composer Pro

3. Select *Chowmain Agent* in the project



4. Enter the Project Code into the Project Code Property. You would have previously set this up on the Chowmain website as outlined in the Website portion of this document. If you have not set up a project you can do so via the [Chowmainsoft - Projects] webpage.

5. The status property will provide feedback on driver licencing status

6. **Please note:** If project code has been used previously on another controller you can revoke the licence for use again.

LICENCING FAQ

What are the Requirements for Chowmain licencing?

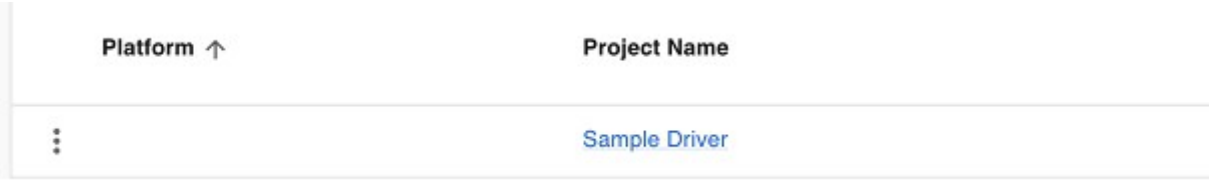
- Driver trials do not require Agent to be installed.
- To activate licenced drivers, *Chowmain Project Agent* must be installed.
- Composer Pro 3.1.3 or later is required to install and configure *Chowmain Project Agent*
- Internet is required during the licence registration process.
- If Internet is lost then the licence will persist the last state.
- If the Chowmain Project Agent is removed then licencing will be invalidated. Do not remove the Chowmain Project Agent once installed.

How do I know if the deployed driver is using Chowmain Licencing?

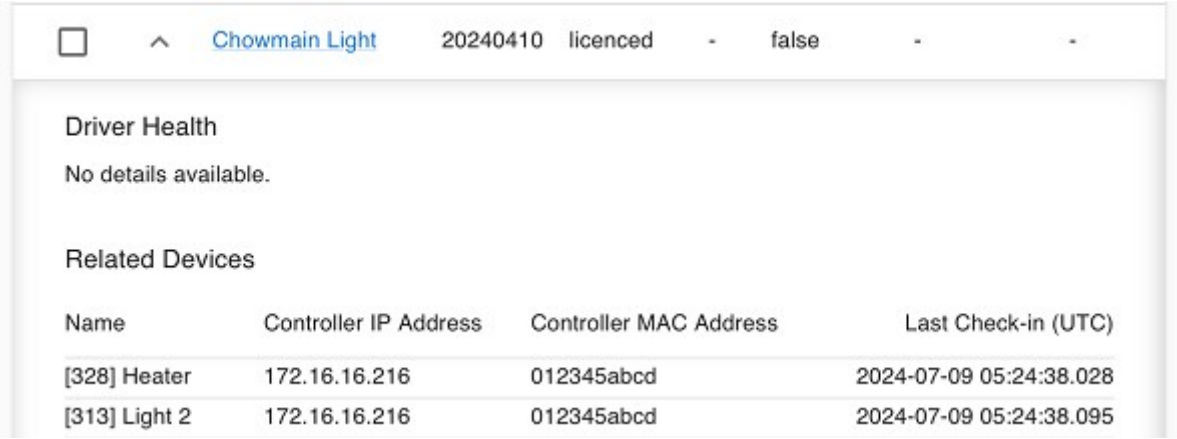
- There are multiple ways:

1. Chowmain licensed drivers have *CM:* in their cloud status property

2. If the *Project Code* has been correctly entered in Chowmain Project Agent and the project is registered, you can find the list of Chowmain-licensed drivers deployed on your controller using the Chowmain website.
    1. Navigate to [Chowmainsoft Website - Projects]
    2. Select your Project Code



    3. Known Chowmain Drivers will be listed, and if you select the driver, it will list which drivers in the project are known to be CM Licenced. Please note, this list may not update immediately



How does the trial period work?

All Chowmain drivers are free to use for 90 days. When the trial expires the driver will cease to function until you purchase a licence and apply it to the project.

What benefits does Chowmain Project Agent provide?

Chowmain Project Agent provides a number of benefits for projects

- Required for activation of driver licences. Enables the linking of Control4 Projects to Chowmain Project Codes.
- Required for Auto Updates of Chowmain Licenced drivers
- Provides local access to all Diagnostics for all known licenced Chowmain drivers on Control4 system in 1-click
- Bulk Enable and Disable of Automatic Updates of drivers
- Display local licencing information for all known driver
- Update All Drivers in 1 click to latest versions available for that driver

Where do I buy a Licence from?

- Chowmain Control4 Drivers are only available to Control4 installers. Installers can sign up to a Chowmain account using: https://chowmain.software/signup. If you are a home owner you should contact your automation installer for support, purchase and installation of drivers
- This driver is developed by Chowmainsoft and can be purchased from the Chowmain Software Website.
- All licences are site licences. This means the one licence can be used to unlock as many instances of the same driver in the same project.

Can I upgrade old versions of drivers from other marketplaces to Chowmain?

- This process is mostly automated.
    1. Install Chowmain Project Agent, and assign a Project Agent as required
    2. Ensure all drivers are up to date, and replace obsolete drivers with updated builds.
    3. Wait 10 mins.

Developer Information

Information stated in this document is current as of January 2026 and may change. For latest information please visit https://www.chowmainsoft.com

Support

Ticket / Live Chat Support

We provide ticket based support and live chat support for those who can't contact us via phone. Click the button below to visit our online helpdesk.

Support Centre	Hours of Operation	URL
Australia / New Zealand / United Kingdom	Monday - Friday - See website for hours of operation	https://chowmain.software/for-integrators/technical-support

Phone Support

Region	Hours of Operation	Phone Number
Australia	Monday - Friday - See website for hours of operation	[+61 3 9028 6999](tel:+61 3 9028 6999)
United Kingdom	Monday - Friday - See website for hours of operation	[+44 29 2000 5551](tel:+44 29 2000 5551)
United States	Monday - Friday - See website for hours of operation	[+1 206 944 5444](tel:+1 206 944 5444)

Driver Documentation

All of our drivers come with detailed instructions on how to install and configure the driver for use in different projects. Please refer to the documentation included with the driver you downloaded, or contact us if you are unable to locate the documentation for your driver.

Change Log

20260411 - 11-APR-2026

- [Feature] Add Support For illumination events. We expect most people to use this on the Presence Sensor (Module NG)

20260409 - 09-APR-2026

- [Feature] Add support for Presence Sensor (Module NG)

20260408 - 07-APR-2026

- [Feature] New Variable: CLOSEST_GATEWAY_ID. This variable tracks the closest gateway to the device for troubleshooting purposes. Keep in mind, this variable may be delayed up to 200ms behind the command (BTHome Device)
- [Documentation] Minor Documentation Updates for clarity (All)
- [Usability] Add new Last Known Closest Gateway Property (BTHome Device)

20260407 - 07-APR-2026

This build adds 3 new drivers to add support for the BTHome Protocol and support for Boolean,Enum,Text and Number Virtual Components. It also adds some new major performance improvements and latency improvements.

- [Feature] Add BTHome support using our new BTHome Agent and BTHome Module drivers. This requires Gen 3+ or Pro Gen2 equipment. More info of setup is in: https://shelly.guide/bthome-components/ and from our Quickstart guide
- [Feature] Add Component Controller driver. This can be combined with Virtual Components and BTHome objects to add various integration bindings and events for deep integration
- [Usability] Update OTA Firmware Update Feedback progress to match new API (Module NG)
- [Feature] Track FW 1.7.5 or Later Provisioning State (Module NG)
- [Feature] Add full support for Over Power and AC/DC Thresholds. This includes support for the new properties (Module)
- [Performance] Major Performance optimisations, including:
    - Turn off low level Websocket logging (Module, Module NG)
    - Modify headers to improve Latency (Module, cloud)
    - Improve Efficiency of Cloud updates. We don't need realtime changes for every single update. This mainly benefits very large systems (Cloud)
    - Optimise Decoding for Cloud Updates. This mainly benefits large systems and reduces CPU spikes (Cloud)
    - Optimise Comms/decodes between Cloud and Module/Module NG Device Updates. This should improve performance on large systems. Particularly during cloud updates (Module, Module NG)
    - Decode Inbound status updates faster (Module NG)

    - Subdevice Encoding / Decoding Comms for capability updates are faster (Module NG)
    - Improve Efficiency of IP updates via MDNS. Changes don't need to be made in realtime (Module, Module NG)
    - Update some old debugging functions which may have a minor performance impact when there are lots of state updates simultaneously (All)
- [Feature] Allow Cloud polling time to be configurable. We don't neccessarily need updates to be fast, as, changes are fairly uncommon actually. This can be used to reduce CPU spikes (Cloud)
- [Usability] Provide better feedback when a reboot has been initiated on a device or when there is a firmware update failure (Module NG)
- [Troubleshooting] Add New Extended Tests to identify duplicate modules. In cases where 2 module drivers have the same IP, this would normally cause a reboot loop. This new extended test can detect those scenarios (Module NG, Cloud, Module)

20260202 02-FEB-2026

- [Feature] Add Shelly Gen 4 Flood Sensor Support / Flood (Module NG)
- [Improvement] Sleepy Devices like Smoke and Flood Gen4 will respond better now. Eliminate Authentication requirements for inbound (Module NG)

20260130 - 30-JAN-2026
This release resolves all known CCT control issues on NG/Gen2+ Devices. Combined RGB+CCT Profiles are not yet supported, but will be in a future release.

- [Improvement] Light CCT Range extended to 1000 - 10000K, as per limitations of RGBWW PM Pro (Light V2)
- [Feature] Resolve issues with Module NG CCT Control. (Light V2)

20260129 - 29-JAN-2026

- [Troubleshooting] Improve Diagnostics (All)
- [Performance] Poll Rates lower than 1200ms are now set to 1200ms by default, and minimum allowed is now 1200ms. This should only affect really old installs anyway. (Module)
- [Performance] Default Poll Rate for Module is now 15000ms, instead of 10000ms (Module)
- [Usability] Add Event Engine Property to indicate which event engine is being used. This shows if your system has been patched for the issue in: https://help.chowmain.software/portal/en/kb/articles/control4-shelly-programming-changes-events-fire-incorrectly (Module)

20260128 - 28-JAN-2026

- [Troubleshooting] Improve Troubleshooting and Diagnostics (All)
- [Troubleshooting] Detect driver version mismatches in Diagnostics (All)
- [Feature] Add Toggle Hue Command (Light V2)
- [Troubleshooting] Add new Control Logs Option (Light V2)

20251028 - 27-OCT-2025

- [Major Bug] Avoid Conflict between variables and some Events (Module NG). Requires old Module NG to be removed and re-added if affected.
    - This patch Fixes the conflict in Module NG devices. This only affects Module NG Devices.
    - This was caused by a conflict between Variable ID's and Event ID's
    - The most common case seems to affect Shelly i4 with events like "Input State X - Single Click" on controller reboot, but other events may have been affected.
    - This patch can only be applied to new installations of Module NG added with 20251028 as the first version (Updating the driver will not fix this, as this would cause existing installs to break).
    - Existing affected installations will require the module NG instance to be removed from the project and a fresh version installed with this latest version to fix the issue as C4 does not allow Event ID's to change after initial creation (Module NG)

20251027 - 27-OCT-2025

- [Improvement] Improve licencing (All)
- [Bug] Resolve "Input State X - Off" event not fixing when input is set to "Button" mode (Module NG)
- [Usability] "Input State X - Push/Release" Button Link No longer is marked as "Switch Mode Only" as it works in both modes (Module NG)
- [Feature] Add BUTTON_LINK for Input State Changed, Input On, Input Off. (Module NG)
- [Feature] Add Input State Changed Event (Module NG)

20251008 - 08-OCT-2025

- [Improvement] Improve Stability of Inbound connection. Full Support for Websocket Pings (Module NG)

20250924 - 24-SEP-2025

This update is a preparation release for Module NG Firmware 1.8.X or later. Firmware 1.8.X adds new security features to comply with EU security regulations. Please note, Firmware 1.8.X will NOT support the Module NG webview interface (most people should not be using this)

- [Compatibility] Improve handling of Outbound Connection to support SSL (Module)
- [Workaround] Improved validation that the outbound connection is working correctly. This seems to be required on networks which mishandle some types of connections (Module NG)
- [Compatibility] Add Outbound Connection Security Property for new F/W support. By default, use migration Mode. This uses Insecure by default, until its redirected to Secure mode. It then permanently switches to secure mode (Module NG)

20250916 - 16-SEP-2025

This release fixes an issue with X4 compatibility with button links on some systems, improves blind handling and performance

- [Compatibility] Identify a possible issue with Button link toggle on some X4 systems (Light V2)
- [Improvement] Whilst there have been no reports of issues, improve error handling on all drivers if Control4 sends commands prematurely (All)
- [Improvement] Improve compliance with protocol standards on outbound connection. This has never caused any issues, and is simply for compliance (Module NG)
- [Improvement] Improve timing for blinds (Blind)
- [Feature] Shelly doesn't provide calibration time for blinds. Enable a way to set a manual time for calibration (Blind)
- [Feedback] Process Full Status information. This should improve responsiveness of Shelly NG devices (Module NG)
- [Bug] Fix Toggle / On / Off Feedback on Shelly NG Blinds. Whilst targets operated correctly, in later firmware, this was delayed (Module NG)
- [Performance] Minor Improvements to responsiveness of Dimmer/Relay Lights. Relay lights should be 200ms faster, Dimmers 150ms faster. Others, are only 50ms faster (Light V2)
- [Performance] Improve Performance of inbound connections by at least approximately 100ms. This should improve responsiveness for sleepy devices and reduce the risk of "echos" (Module NG)
- [Troubleshooting] Improve Logging (All)
- [Performance/Usability] Do not reprocess status data on both connections. Only one. This should not only reduce CPU usage, but should eliminate duplicate processing of input data if one of the connections is lagging. This should also improve latency in some cases on slower controllers (Module NG)
- [Troubleshooting] Add Light Command Retries for unreliable wifi networks. This allows lighting commands to be retried multiple times, instead of failing the first time (Module - 1st Gen)
- [Bug] Fix to prevent possible unreproducible anomaly in StopScenes (Module)

20250417 - 17-APR-2025

- [Bug] On some light devices, color's in some cases were not being set correctly in 20250414. Fixed (Light V2)

20250414 - 14-APR-2025

- [Feature] Add Ramping support for Module NG devices
- [Feature] Add Support for pure CCT channels. RGBCCT Not fully implemented yet (Module NG)
- [Stability] Further Crash and packet handling fixes for large packets (Module NG)
- [Bug] Greatly improved handling of Module NG feedback data when device is sending data too quickly or where data is sent back using continuation frames. This issue has mainly been observed on the EM devices, and Dimmer devices mainly and should greatly improve feedback (Module NG)
- [Compatibility] Improve Compatibility with drivers which provide invalid levels such as the Security Light Driver (Light V2)
- [Performance] Remove remainder of old licencing code (All)
- [Bug] Improve Licencing (All)

- [Bug] Handle Disconnect requests sent by module as feedback. Previously we stayed connected (but got disconnected anyway), but now, we proactively disconnect (Module NG)
- [Bug] Minor Bug fixes (All)
- [Stability] Improve Stability of Module NG device data processing (Module NG)

20240930 - 30-SEP-2024

- Resolve issue with 0.0.0.0 IP's being detected by Agent incorrectly (Agent)

20240925 - 25-SEP-2024

- Improve Licencing (All)
- Add RGBW2 Plus Support (Module NG)
- Fix Crash During provisioning (Module NG)

20240819 - 19-AUG-2024

- [Usability] Chowmain Licencing Improvements
- [Bug] Resolve incorrect display of Licensing Invalid. Driver Disabled in situations where module isn't connected (Module)

20240806 - 06-AUG-2024

- Support for Chowmain Licencing
- Improved Troubleshooting
- Performance Improvements

20240410 - 2024-APR-10

- [Bug] Fix Compatibility with some controllers

20240403 - 2024-APR-03

- [Performance] Reduce HTTP Connections required by Driver for operation (All)
- [Performance] Further reduction of CPU spikes (All)
- [Compatibility] Future Compatibility Updates (All)
- [Performance] Other Miscellaneous Bug and performance improvements (All)

20240312 - 2024-MAR-12

- [Documentation] Modify remaining references from home.shelly.cloud to control.shelly.cloud (All)
- [Improvement] Improve MDNS IP Handling. Cloud IP and MDNS IP now work better in parallel. (Agent)
- [Bug] Gen 3 Devices should Auto-Setup as ModuleNG (Agent)
- [Bug] Reduce Memory Usage of MDNS Ptr Records which occurs on some networks (Agent)
- [Bug] Fix Broken BUTTON_LINK Bindings on Controller Reboot (Module)
- [Improvement] Improve Announcement Event detection. (module)

- [Performance] Don't Create Bindings twice. Improved start time (Module)
- [Bug] Fix Crash during basic setup if the ID is different. This should not affect normal usage (Module)
- [Feature] Installers can now test Controller performance using Extended Diagnostics (All)
- [Bug] Lights will now correctly Auto-Bind on Gen 2+ modules when running Auto-Setup (ModuleNG)

20240217 - 2024-FEB-17

- [Feature] New Support for Blind Levels in Toggle mode on Gen 2/Gen 3 devices. Now allows Stopping on these devices (Blind, ModuleNG, Module)
- [Feature] Improve support for Blind Levels in Toggle Mode on Gen 1. We can't identify the position, but we can make it better (Blind, Module, ModuleNG)
- [Feature] Add Extended Diagnostics Support (All)
- [Bug] CCT during Scenes was being incorrectly changed to the equivalent RGB (but the equivalent). This also broke scenes on old Duo CCT lights (Light V2) - Thanks Paul Lang
- [Bug] Fix Minor Crash on Light which occurs after Controller reboot in some circumstances. We do not believe this affected the operation of the driver however (Light V2)
- [Performance] Speed up some certain operations by 9ms-22ms (or more). Particularly on large Shelly systems or slow controllers (such as a CA1), this may reduce CPU spikes, and in all cases, it will improve latency further (All)
- [Usability] Show Brightness Property on On/Off Lights (Light V2)
- [Troubleshooting] Major new Diagnostics. Some Diagnostics take 24hrs to become fully active (All)
- [Troubleshooting] New Action. "Display All Related Diagnostics". This provides Diagnostics for all Shelly Devices/Drivers in Project (All)
- [Performance] When Debugging is enabled, Up to 28x-100x speedup in logging performance improvement in some benchmarks of 10000 logs (ie, 6631ms vs 60ms in the best case).
- [Performance] Print and Cloud Debugging will switch to cloud only after 24hrs automatically.

20240205 - 2024-FEB-05

This is a MAJOR Release. A database upgrade is performed which may limit driver downgrading. We recommend everyone performs a backup before this upgrade. We would like to thank everyone who contributed to this release, and the time it has taken.

- [Performance] Up to 14X improvement Performance improvement in some synthetic benchmarks, with all tests showing Improvements. Improve Memory usage (All)
- [Feature] New rewritten support for presets in Lighting. This includes support for Previous State, Preset and Color Fade Presets. A controller reset may be required after upgrade to enable this functionality. You may need to toggle back and forth preset settings to make it work (Light V2)
- [Feature] Support for Future Chowmain Light Group. (Light V2)
- [Feature] Full Support for Button Link LED Colors (Light V2)
- [Performance] Print Debugging turns off automatically after 24hrs. This greatly reduces CPU usage and memory (All)
- [Usability] Change to new Web control.shelly.cloud Link Address. Home is obsolete (Cloud)
- [Performance] Reduce File Descriptors. May improve scalability on large systems (All)

- [Bug] Improve Blind Renaming code (Blind)
- [Usability] Improve Auto Update behavior (All)
- [Troubleshooting] Some new Chowmain Self-Healing magic (All)
- [Stability] Major Stability improvements in various places
- [Troubleshooting] Some major improvements to diagnostics
- [Bug] Shelly NG Trigger command didn't work correctly. Fixed (Module NG)
- [Usability] Improve Command naming when programming (Module NG, Module)
- [Bug] Fire Shelly Module States correctly. This should improve behavior with Contact Closures and Relays (Module)
- [Performance] Temperature and humidity should only be dispatched to bindings during changes (Module)
- [Bug] In Some Circumstances, temperature data may not update properly on Motion 1/2 (Module)
- [Bug] Module NG Devices do not support Blind durations less than 0.1s/100ms (ModuleNG)
- [Bug] Fix Announcements list on systems where the announcements agent is called "Announcement Agent" instead of "Announcements" (Module,ModuleNG)

Known Issues

- Some short blind adjustments might not work on certain locales. (Blind)

20230531 - 2023-MAY-31

- Shelly i4 loses bindings on Controller restart. Fixed (ModuleNG) - Thanks Alexis STURM
- Improve Temperature Compatibility with Shelly Motion / Motion 2 (ModuleNG) - Thanks Luke Stevens (SES Fire and Security)

20230502 - 02-MAY-2023

- Resolve Regression in Light On Command for On/Off Lights causing crash (Light V2) - Thanks Rob van Gorp and Simon Viccars
- Introduce new performance optimisation (All)

20230501 - 01-MAY-2023
This Version introduces 3 major patches (one of them changes the behavior of the way the driver behaves)

- Fix issue with Shelly Plus Addon Device not working correctly. This is a major Patch. Ensure all of your module NG devices still work! (Module NG) - Thanks Michael O'Neill @ SDAV
- Button Bindings, links and brightness now use the Default Brightness Property instead of reverting to the last level. This is to match the expected behavior of Control4 Drivers. Further OS3.3 improvements will be added as they progress (Light V2)
- Other Internal Enhancements (All)

20230322 - 22-MAR-2023

- Fix Issue with hiding unused properties correctly on reboot (All) - Thanks Michael O'Neill @ SDAV

- Add Support for Daylight Agent. Please note, this requires controller reboot. Daylight agent cannot be supported by the V1 lighting drivers (Light V2)
- Fix CCT Calibration of Shelly Duo. Should also be instant now (Module)

20230306 - 06-MAR-2023

- Improve initial state of Input Contact Closures to handle connected devices properly. (Module NG)
- Door & Window requires fixes for dark and twilight (Module)
- Add Shelly Smoke Plus US Support (Module NG)
- Add Full Shelly Plus Addon Support - Voltmeter, Analog Input, Extended Digital Inputs (Module NG)
- Add Reboot Command (Module)
- Add command to ramp blind for specific time (Blind)

Thanks To:

- Paul Geenty
- Raphael Eggenberger
- Barry Tol
- Shelly team
- Andy Good
- Lukas Sacher
- And everyone else who contributed

20230221 - 21-FEB-2023

- Minor HTTP optimisation which should halve the latency for a command. This should improve performance and reduce CPU load, however, this optimisation will likely only be visible on high latency networks (Module, Cloud)
- Backend Fixes (All)
- Minor OS3.3.2 optimisation. Improve Color Trace Tolerance (Light V2)

20230208 - 07-FEB-2023 (Important Bug fix)

- Fix Infinite Reboot loop on some Gen 2 modules such as the Pro by only setting the outbound websocket address if its changed. Pro modules in particular will request a reboot, even if the address hasn't changed. Please note, if you have 2 modules with the same IP, you need to delete one (Module NG)
- Fix Advanced Diagnostics (All)
- Better detection of Websocket Disconnection. We suspect in some cases, websockets are disconnecting subtley (ModuleNG)
- Director reboots cause issues on some Module NG modules. Identified and solved the issue (ModuleNG)

Thanks to everyone who assisted with this release, including:

- Alex Josling
- Adam Jurisich
- Neil Williams
- David Bowen
- Gary @ imedia

20230111 - 11-JAN-2023

This release adds support for Self-Healing and discovery using local LAN. This can be combined with the cloud discovery to provide a hybrid solution with all of the advantages of both (good support for sleepy devices, ability to auto-setup devices without using the cloud, and self-healing without the cloud). LAN discovery is always prioritised for self-healing of IP addresses, whereas, cloud is always prioritised. It also fixes a crash with Shelly NG modules in OS 3.2 or earlier

If you're using LAN discovery, you may want to consider turning off "auto rename" on the drivers. Local LAN discovery may not detect the correct device names. Multicast must also operate correctly on your network for this feature to work correctly (any decent equipment handles multicast without any additional config)

Other Improvements include:

- Self Healing Improvements for ethernet connected Gen 2 devices (Agent) - Thanks Jamie Waite
- Miscellaneous improvements (All)
- Module NG incorrectly listens to thousands of ports in some cases when using Gen 2 modules due to incorrect handling of server status.. Fixed. This bug is believed to have been introduced in 20221017, and mainly affects OS 3.2 or lower, and new systems (Module NG) - Thanks everyone who mentioned this, including Wayne Tabram, Matt Sand and Jason Shinkfield
- Add command to ramp blind by a specific amount (Blind) - Thanks Lukas Sacher
- Add Purge Known Devices to remove all known devices. This is useful if some devices have been removed from the installation and are interfering with AutoSetup (Agent) - Thanks to many people (too numerous to mention)
- Remove checks for whether Shelly drivers are properly installed on controller during Auto-Setup and Traffic Lights. Our One-Click AutoSetup implementation means the drivers are automatically installed as required. These checks now provide invalid information (Agent, Module, ModuleNG) - Thanks Lello De Domenico
- Resolve potential lighting Rate issue (Light V2) - Thanks SnapAV
- Add option to auto-turn on light when setting preset (Light V2) - Thanks Kevin Dew

20221017 - 17-OCT-2022

This is a major release that fixes a few capabilities and adds a few more 2nd Gen devices.

- New Devices supported:
    - H&T Plus (Module NG)
    - Pro 1/2/3 (Module NG)
    - Shelly i4DC (Module NG)

    - Shelly WallDimmer (Module NG) - Requires OS3.3.0 or later (Shelly Light V2 driver is required. Older Light V1 drivers are not supported for walldimmer)
- Fix detection of some 2nd Generation devices (Cloud) - Thanks David Hancock
- Improve detection of Sleepy devices and detect second generation sleepy devices correctly (Cloud) - Thanks David Hancock
- Add Device power and External Power Properties. Used by H&T Plus (Module NG)
- Fix Shelly Motion 2 events. Replicated on my home system. Fixed (Module) - Somebody previously reported this issue (but can't remember who). Thanks :)
- Improve Variable management system to reduce risk of ID's changing in future if firmware status changes. Please note, whilst this new system ensures the ID of variables won't change, it does not guarantee that variable ID's will be consistent between modules (Module, ModuleNG) - Thanks Chip Burke
- Improve STOP command performance for Uncalibrated Blind (Module) - Thanks Jakub Orlankowicz (Orlankowicz Intelligent Solutions)
- Shelly NG Device Temperatures should use Shelly Thermostat instead of temperature Display Driver, which has limits (Module NG)
- Improve Sleeping Detection (Module NG)
- Try to Automatically reboot module if required. This is required by Sleepy devices to correctly configure the unit (Module NG)
- Other bug fixes and improvements
- Reduce C4Z File size (All)

20220914 - 14-SEP-2022

- Fix Random Crash with ADCS on Uni Modules (Module)
- Preventative code to reduce the possibilities of crashes (All)
- Fix External Humidity (Module) - Thanks Ben Murray @ BKM Solutions
- Fix Crash related to Shutters Pre-AutoSetup (Module)

20220908 - 08-SEP-2022

- Fix Relay Lights on V1 Module (Module) - Thanks Jessica @ Tekmodo

20220905 - 05-SEP-2022

- Fix for bindings and properties in some circumstances which might not operate correctly (Module)
- Fix Issue with Brightness setting in some circumstances (Light V2)
- Other miscellaneous updates (All)

20220829 - 29-AUG-2022

This is yet another major release, which introduces some of the major new changes:

1. Introducing our new One-Click AutoSetup implementation. Driver should be now be faster and easier to setup. This solves 90% of the installation support issues.

2. Huge new Performance improvements. On a test controller, CPU load dropped from regularly high latency and 25%+ CPU load, to negligible latency and CPU. Controller reboot is required for the full speed/latency improvements to take effect.
3. Improvements to RGBW2 white channel handling. Turning on a color channel after power outage no longer turns on the white too, and vice versa. We rewrote the command system to enhance support.
4. Improved Shelly i4 support
5. Lights now use acknowledgement for instant feedback. RGBW2 in particular can now operate reliably on high poll rates of 30+ seconds
6. Shelly Thermostat can now we used instead of the Temperature Display for high-temperature operations which the TemperatureDisplay driver doesn't support
7. Major Backend Troubleshooting and Diagnostics improvements
8. Polling is seperate from the rate of commands sent to the device. This allows for more more fine grained configuration
9. New Generation Documentation

Configuration Changes
There are also 2 major configuration changes which may affect your setup:

1. On old installations with a poll rate of less than 500ms, they will be set to 500ms minimum. This is to prevent the driver from overloading the network with commands. Higher poll rates are recommended
2. The old default for Button Ramp rates used to be limited to 12s.. However, we now correctly use the hold rates in the driver itself. The default is 5s though. If lights are ramping too quickly, increase the time to 12s or more.

Reliable Long Polling Support:

- This release adds reliable Long Polling of Lights. This allows:
    - Having extended poll times of 30s-120s instead of 250ms-750ms on large systems, which greatly reduces system and network load without sacrificing UI feedback. On a test system with 12 RGBW2 devices and 250ms poll rate, this lowered the CPU from 20-30% to less than 5% and significantly lower latency of all system devices
    - Faster Feedback to users (no need to wait for the next poll)
    - With long polling, external commands sent to the device using the Shelly web interface or another control system may not be reflected in some circumstances until the next poll.
- Please note, some devices which send feedback may in some circumstances offer limited long polling support.
- Gen 2 / ModuleNG devices do not need polling (feedback is always instant). This change does not affect them.

Full changes:

- Fix Duplicate Traffic Light (Thermostat)
- Troubleshooting improvements (All)
- Long Ramping of Brightness/Color is supported once again (Light V2)

- Fix crash during OFF command with no ramp rate (Light V2)
- Improved white channel handling of RGBW2 (Light V2)
- Poll Rate is now seperate from the Connection Delay Rate. (Module)
- Fix Effects Regression in Light V2 (Module)
- Maximum Connection Delay rate is now reduced to 5000ms only (Module)
- Add Bulk Update Module Poll Rate to allow fast setting of poll rates (Module, Cloud Agent)
- Stagger polling requests between modules to avoid network / CPU load spikes. This mainly affects large installations
- Fix Light Off Crash in some circumstances (Light V2)
- Add Increase/Decrease Brightness Commands to Light V2 (Light V2) - Thanks Sam Drake @ NextGen
- Toggle Brightness Button Link incorrectly reverts to 100%, not last brightness (Light V2) - Thanks Sam Drake @ NextGen
- Further minor Optimisations for Lighting when feedback changes to avoid some processing (Module)
- We can safely reduce some protection built into our code to potentially reduce overheads during polling. This optimisation has the biggest benefit on less-complex modules. This only affects Gen 1 modules (Module)
- Other Misc Optimisations (All)
- Chowmain's new Documentation system (All)
- Introducing our new One-Click AutoSetup implementation. Driver should be now be faster and easier to setup. This solves 90% of the installation support issues (Module,ModuleNG,Cloud)
- New Low-Level Performance Improvements. Requires controller reboot after upgrade for changes to take effect. On large / overloaded systems, this should improve performance.
- Major Lighting Update. RGBW2 White Channel is now correctly separated from the Color Channels and off. This required an overhaul of our command queue system. (LightV2)
- [Breaking]: The old default for Button Ramp rates used to be limited to 12s.. However, we now correctly use the hold rates. However, the default is 5s (so, some people might find that lights are ramping faster).. If so, revert the ramp rates to 12s
- Default Minimum Ramp rate is now 5s (Light V2)
- Update Diagnostics and Debugging (All)
- Shelly i4 Button events / bindings not working correctly (Module NG)
- Improve input/button detection for inputs in button mode (don't use state, but id)
- Update Diagnostics and Debugging (All)
- Add Error Reporting capabilities (All)

Thanks:

- Sam Drake @ NextGen
- David Hancock
- Nick Bovill (Control4 EMEA)
- Eldon (SnapAV)
- Justin Kaplan
- Alexis Sturm
- Everyone else who helped contribute to this release

20220609 - 09-JUN-2022

- Improve Diagnostic feedback for OS 3.2.4 and lower (Lights V1)

20220608 - 08-JUN-2022

- Fix Voice Scene / Alexa support (Light V2) - Thanks Trey Nolan / Eldon

20220602 - 02-JUN-2022

This is a major release which introduces a few major new features, huge performance improvements and various fixes, including:

- Brand New V2 Lighting Driver (chowmain_shelly_light_v2):
    - This new driver REQUIRES OS 3.3.0 or later
    - ColorWheel and White Temperature lighting Support.
    - Extras Support for Effects on compatible lights (mainly RGBW2)
    - Support for Color / CCT Presets
    - Replaces Light Relay, Dimmer, Dimmer with Temp, RGB and RGBW drivers. Greater flexibility, and less drivers required
    - To upgrade, you must be running OS 3.3 or later. Remove existing lighting drivers, and use auto-setup in the modules.
- Support for new Shelly NG Blinds ("Covers").
    - Uses the existing Blind driver in combination with the Module NG driver
    - Supports Position control and toggle control
    - Current Hardware which supports this driver is Shelly Plus 2PM
- Add ShellyNG (Gen 2) Authentication Support (ModuleNG) - Thanks Martyn Jepson
- Add Blind Calibration Action to enable calibration with the web interface. (Blind,Module,ModuleNG)
    - Load must be connected to blind to allow calibration
    - It it not recommended to recalibrate blinds remotely, in the event objects are in the way, they may cause damage or if calibration fails and manual intervention is required
- Fix Thermostat and LightV2 Locale issues which mainly present in locales like Germany (Thermostat) - Thanks Hermann Schwieren
- Fix Regression with Pre-OS3.3.0 releases and Display Diagnostics (Module, NG Module, cloud) - Thanks Hermann Schwieren
- Manage risk of bad Status data. Crashes should no longer break all feedback for additional data hasn't been processed yet (Module,ModuleNG)
- Add Calibration Status Feedback to Blind (Blind, Module, ModuleNG)
- Add ShellyNG (Gen 2) Authentication Support (ModuleNG) - Thanks Martyn Jepsonnod
- Track whether TRV Valve is open or closed using HVAC States. (Module) - Thanks David Hancock
    - For those who are using Valve Opened / Closed Actions directly within the module, URL Module actions are not overriden by our driver, so can still be used

Performance Improvements

- Eliminate CPU Spikes when using Cloud and a large system during sync operations. Previously, depending on the size of the system, large CPU spikes were observed every few minutes which have been eliminated now. (All) - Thanks David Hancock
    - On our test setup, 30% CPU spikes every 5mins were entirely eliminated, and CPU max was within 1-6% controller wide at all time. (All)
- Reduce operations performed on project modifications and driver upgrades (All)
    - As a side effect, this reduces load during driver upgrades
- Further reduce communications required between modules and cloud. (All)
- Optimise selected properties to reduce communications with Composer and improve remote Composer Connections. (ModuleNG,Module)
- Introduce Action to Bulk Update Module Connection Delay Rate from cloud (Module,Cloud)
    - This only affects 1st Gen modules. 2nd gen modules do not require polling and are always instantaneous
    - This action is particularly useful on large systems, with overloaded controllers which may require a large number of module properties to be modified.
    - Slowing down the polling reduces the response rate but can reduce Controller CPU usage.
    - Please note, the experience of some devices may be degraded with high poll rates
- Only Fetch Announcements on Refresh Navigators, instead of all system events (Module, ModuleNG)
- New Default Poll rate is now 750ms instead of 500ms. This only affects 1st Gen Shelly Drivers, and the value may be increased in the future (based on further testing). Existing drivers will NOT have their poll rates changed automatically (Module) - Thanks RyanE
- Extend maximum poll rate to 10 seconds. Please note, 10sec poll rate is NOT recommended for most shelly devices (Module) - Thanks RyanE

20220510 - 10-MAY-2022

This is a major update. An summary of major improvements are below.

Please note, this release does not include the major updates which target the new Control4 OS (Dealers with beta access should contact us directly).

New Features:

- Support for Lighting Load Groups to allow grouping of lights. Lights can now be used in combination with Control4's Dimmer Load Group Driver to control groups of multiple lights, including drivers from other brands (All Lights)
- Add Minimum Brightness Property (All Dimmable Lights) -- Thanks Mesh Patel / Concept Electrical Solutions NZ
- Ability to self-diagnose many issues and display diagnostics (All Drivers)
- Update Debugging (All Drivers)
- Extensive preparation work for future Shelly Lighting products (All lighting drivers)

Bug Fixes / Improvements:

- Handle Invalid Authentication better (ShellyNG)

- Remove Display Debugging Info. Deprecated by better diagnostics (Module, ModuleNG)
- Sort Select From Device List (All Drivers except Agent) - Thanks Mitch Greenfield
- Fix Crash when Authentication is incorrect (ShellyNG) - Thanks H. Schwieren
- Do not override all actions. Only update module actions which are required for driver operation. Allows unhandled events to be set by installers. As a side effect, this improves performance of the driver and reduces some traffic (Module). This is required for some TRV operations -- Thanks Keith Harrison
- TRV requires special actions URL to apply actions (Module) -- Thanks Keith Harrison
- External Temperatures on Shelly cause Lua error.. Fixed (Module) -- Thanks David Hancock And Raphael Eggenberger
- Fix External Temperatures Properties Display (Module) -- Thanks David Hancock
- Fix Auto-Setup of some parameters/devices which use strings for index instead of numbers, primarily External Temperatures for some modules (Module) -- Thanks David Hancock
- Fix Button Links (Module)
- Fix Toggle for Button Links and Commands (All Lights)
- Disable Effects when switching Levels (All Lights,Module)
- Fix Incorrect renaming of Thermostat driver if auto-rename is disabled to unbound (Thermostat)
- Fix Incorrect naming of Temperature Display Drivers if Auto-rename disabled (Module)
- Fix issues affecting future Control4 OS Versions (All)
- Fix Missing stopped state On Blinds driver (Blinds)
- Modify Shelly Cloud Web link to updated portal address (Cloud)
- Fix Button click not cancelling timers in some cases - Thanks Jessica @ Tekmodo (Lights)
- Fix Color Mode regression in RGBW2 (Module)
- Fix LUA error when states aren't available yet in - Thanks Jessica @ Tekmodo (Lights)
- Bug with RGBW Light Off Command - Thanks Jessica@Tekmodo, Paul@EAV & Thomas@Tailor-Made AV (Lights)
- Fix Description for Control Type (Blind)
- In some conditions on first connect, ModuleNG used to not correctly connect (ModuleNG)

20220224 - 24-FEB-2022
PLEASE NOTE:

- A Project Backup is recommended before installing. Downgrading from this version may not operate correctly with existing Lighting Scenes.
- Auto-Rename is turned off by default on existing driver installations due to changes in the auto-renaming mechanism which may impact driver naming differently to previous versions (channel names are now utilised).
- Ensure all updates from the package are installed and updated.

This is a MAJOR new Release which adds some huge new improvements including:

1. New Thermostat Driver (TRV Radiator Valve support).
    - This Driver adds support for Shelly's new TRV Radiator Valves

    - Support for Position/Level Control, and Automatic Temperature holds (please note, Shelly's native Web interface may require a refresh to show the switch between levels and temperature control. In Control4 however, our driver will display this switch accurately and automatically)
    - Calibration support (if required)
    - Schedule / Preset Support.
2. Fine grained control over Auto-Renaming.
    - Channel names are now utilised where possible
    - Customise whether (selected) 3rd party drivers are also renamed (Temperature Displays primarily)
    - Customise driver name source: Module Only, Cloud, or both.
    - Greater level of naming control in connected shelly submodules
    - Auto-naming works more predictably. However, all name changes should now be reflected instantly (Shelly NG, module only), or within 1 minute (others)
3. Scene Ramping support
    - Control Dimming via connection for multiple lights via Advanced Lighting simultaneously
4. Performance should be improved when using Cloud driver (mainly affects large systems)
    - Communications have been improved between modules to prevent more redundant communications
5. Ability to set Poll Rate on Module driver
    - By default, Module normally polls every 250ms. The default is now 500ms to enhance compatibility with smaller overloaded systems. CA-10's or systems with more grunt (or small systems with less modules) can ramp this up to higher speeds for greater responsiveness
    - Please note, this does NOT affect Shelly NG Drivers (Shelly NG utilises communication mechanism which is instantaneous)
6. Preparation of the Lighting drivers for potential future hardware
7. Updated Documentation
8. Improved Blind/Curtain Performance

Detailed Changes include:

- Some C4 clients showed incorrect preset name. Thanks H. Schwieren (Thermostat)
- Thermostat should use 1.0 steps, not 0.5 steps. Thanks H. Schwieren (Thermostat)
- Switch resolution of temperature to 0.1. Thanks H. Schwieren (Thermostat)
- Improve Preset Name behavior. Thanks H. Schwieren (Thermostat)
- Improve HVAC Preset Behavior.. Please note, Manual setting and off always take priority over SetPoints in Preset.
- Other Thermostat improvements
    - Schedule support has been added. Please note, Scheduling in Control4 is independent of TRV Schedules and allows a greater level of flexibility
    - Preset Support. Set one click presets
    - New support for manual / positioning control built in
    - Improved support for Minimum Valve Position Limit's

- Other misc fixes
- Add New Thermostat Driver for Shelly TRV (Thermostat,Module)
- Increased usage of Control4 API (All)
- Support for Shelly's new TRV Device via our new chowmain_shelly_thermostat driver. To use TRV's:
    - Install / Update all drivers
    - Setup the TRV using the Shelly App. Ensure the latest firmware is installed.
    - Run Auto-Setup in our Cloud driver, or auto-setup in the module.
    - Please ensure you run calibration either from the thermostat driver, or from the module webpage.
    - From the module webpage, enable Automatic temperature control. Accelerated heating is optional.
- Other misc fixes
- Increased usage of Control4 API (All)
- Fine grained control over Auto-Renaming
- Scene Ramping support
- Performance should be improved when using Cloud driver (mainly affects large systems)
- Ability to set Poll Rate on Module driver
- Preparation works for future hardware
- Improve Auto-Rename. Significant improvements have been made. You can now select how Auto-rename operates to a greater extent (disabled, cloud, local or any). (ModuleNG, Module)
- Auto Rename responds more reliably and utilises channels for naming. (All)
- Fix RGBW2 Channel detection (Cloud)
- Any older version of driver will have auto-rename disabled by default. New drivers installed have Auto-rename enabled by enabled (All).
- Hide Auto-Setup Property once complete (ModuleNG)
- Auto-Naming uses Model Name instead of Module name incorrectly (ModuleNG)
- Fix Mistake in Display Driver Directory (Cloud)
- Fix Error during Sanity Checks in some OS3 versions (Module, ModuleNG, Cloud)
- Maintain provisioning data in between driver reboots (Cloud)
- Add Connection Rate Delay Support to balance Controller CPU (Module)
- Scene Ramping Support (Dimmer, RGB, RGBW, White Tunable)
- Cleanup redundant Cloud To Module Communications (Cloud, Module, ModuleNG)
- Improve Blind Behavior to closer match official behavior to prevent blind moving too much on GUI - Thanks Tony Duvano (Blind)
- Debugging improvements (All)
- WebView Init early (David Hancock)
- Improve Debugging (All)
- Autosetup Precheck warning if drivers are missing (module, moduleNG, cloud)
- Speed up Cloud. 15X faster response. (Cloud)
- Auto-Add Shelly Relay Light for Relays (already done on ModuleNG). This is mainly because most users didn't even realise the driver existed (Module)
- Improved Auto-Renaming (All)

- Channel names are now correctly pulled from Cloud for Shelly NG and Shelly if available (Cloud))
- Prioritise Cloud Names Over Device Names. Use the Default as last resort (All)

20211108 - 08-NOV-2021

This new stable release primarily adds adds:

- Optional support for smooth dimmable ramping on button links
- Level/discrete support on Blinds.
- Bug fixes and and other improvements have also been included

Details are:

- Update Documentation (All)
- Minor Backend Improvements (All)
- Webviews keep incorrectly resetting to default in some cases (Thanks David Hancock) - (Module)
- Improved Debugging (All)
- FEATURE: Add Support For Blind Levels. To enable, set new Control Type property to Levels. Default is toggle (blinds, modules).
- Stability fixes for feedback disconnections (Module).
- Add Support For Button Link Smooth Ramping. Please note, Button Link behavior must be set to Dimmable (All Dimmable Light drivers)
- Switch default Button Ramp rate from 5% to 8% for smoother ramping (All Dimmable Light drivers)
- Add Short term and Long term Ramping support. All Dimmable modules supported, with the exception of the Shelly SHBLB-1 Bulb which does NOT support smooth ramping. Please note, attempting to ramp color and white channel on some devices simultaneously may cause problems.. (All Dimmable Light drivers)
- As there have been no reports of problems since introduction on 20210916, Dimmable Button Links now defaults to "Dimmable". Original behavior can be restored by switching to On/Off (All Dimmable Light drivers)

20211010 - 10-OCT-2021

- Fix ShellyNG Connection (Thanks Firas Ayyash) - (module_shellyNG)

20211009 - 09-OCT-2021

- Further RGBW2 Tweak (RGBW)
- Add support for Lighting Effects. Please note, not all modules support lighting effects (RGBW and RGB)

20211005 - 05-OCT-2021

- Improve RGBW2 module support

    - RGBW2 modules in White mode correctly provision as 4x Dimmer Channels. Modules provisioned on 20210511 or earlier are not affected (module).
        - If using RGBW2 and only 1 color driver has been added during an auto-setup, the recommended solution is to delete the module and connected light driver, re-add and auto-setup.
    - On / Off and ramping may incorrectly trigger module color mode configuration. Fixed. (All light drivers, module)

20211004 - 04-OCT-2021

- Fix LUA Error

20211001 - 01-OCT-2021

- Improve Logging (All Modules)
- Submit Diagnostics (All Modules)

20210916 - 16-SEP-2021
Please note, this is a major upgrade. Existing users should reboot their primary Control4 controller after update. Please ensure all drivers within the package are updated. The main changes are:

- Native Shelly NG Module support (with optional Relay Light driver compatibility). Shelly NG Devices include: Shelly Pro 4PM, Shelly 1PM Plus, Shelly 1 Plus
- Responsiveness has been greatly improved for existing Shelly modules.
    - Whereas commands previously took 0ms - 1000ms to execute previously in most cases (with the average being 250ms-750ms+), commands on average will now begin execution within less than 100ms (the difference should be immediately noticeable). Feedback should also feel MUCH faster
- Greatly improved button link support, with basic ramping support.
- Greatly improved Debugging system
- Huge list of bug fixes

We would like to thank everyone who assisted with bug testing, and suggestions.

Detailed Information is:

- Add Submit Troubleshooting Action (All)
- Cleanup redundant code (Cloud)
- Add Button Link Names (Shelly NG)
- Add Debugging Info link (Module, Module NG)
- Correct Naming of lights in RGB driver (RGB Lights)
- Additional error checking (Lights)
- Auto-Setup didn't select correct lighting driver in cases where module was set to color mode (Module)
- Auto Rename property to control Auto Renaming of driver (All Subdrivers)

- Add Contact Sensor for Gas and Smoke Sensor
- Other Misc Fixes
- CONTACT_SENSOR Bindings on Motion Sensors and some sensors were only created properly on much earlier driver.. Fixed.. You may need to Click Auto-Setup on affected devices again
- Sleepy Device's handled properly in Cloud Driver again
- Rewrite Provisioning System.
- Select Device From List updates correctly
- Announcement system operates in module_NG properly
- Name Bindings more specifically
- Drivers are now auto-added correctly in Module_ng on creation.. Naming is also improved
- Cloud driver will no longer crash when a pro is in your cloud server config
- Device Directory will now correctly show which devices are gen 1 and which devices are gen 2.
- Cloud Driver will automatically update/fix IP addresses on Gen 2 devices now
- Shelly Pro Support - chowmain_Shelly_ng_module
- Fix Module Connected Event
- Fix 70px Broken Icon in Module
- Rework Relay Light Code
- Shelly Window/Reed 2 keeps firing events on reed open/close
- Add Dimming Rate for Dimmable BUTTON_LINKS
- Limit new Action_URL Changes for Motion to ONLY motion.
- Speed up BUTTON_LINK DIMMING Rate
- Allow Dimming Direction to Reverse
- Fix Regression introduced in 20210802. Fix Action_URL's
- Shelly Motion linkage to cloud works properly.
- Fix Light Calibration
- Add BUTTON_LINK Dimmer support
- Colors shouldn't show up for Brightness-Only/white-tunable lights.
- Auto-Setup from Cloud might not correctly propagate settings to Modules (Regression). However, select Device from list does operate correctly
- State may not correctly show as sleepy on sleepy devices (REGRESSION)
- ACTION URL's for sleepy devices should also be sent via cloud, for extra redundancy
- Overhaul Connection system. Almost all commands will now run instantaneously.
- Upgrade Debug Code. Simplify Properties.
- Workaround Temperature Aggregator Driver crash.
- Improve Diagnostics Backend
- Fix potential connectivity bug

20210511 - 11-MAY-2021

- Fix Potential Fault in Lua Reporting code for Temperatures
- Fix Potential Fault with humidity
- Improve diagnostics backend

20210505 - 05-MAY-2021

- Add Wipe Webview Caches Button (may be required for some firmware upgrades to operate correctly afterwards, such as 1.10.4).
- Add better warning for Unbound subdevices
- Fix Incorrect Shelly Manufacturers field in some drivers

20210504 - 04-MAY-2021

- Initial Public Release