Shelly Suite Installation and Usage Guide

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Contents

Overview

Shelly is an IoT manufacturer who creates a range of affordable retrofit Wifi based devices that include relays, radiator valves, contact inputs, buttons, smart plugs, rgb controllers, smart bulbs, motion sensors, flood sensors, smoke detectors, gas sensors, energy management and more.

Chowmain has integrated the range of Shelly wifi products into Control4 with two way control and feedback. The hardware is extremely affordable with relays starting at 9.08€ (14.95 USD / $25.99 AUD). It definately adds value to any Control4 installation.

This Driver Package supports both Generation 1 (Shelly), and Generation 2 (Shelly NG) devices and can optionally be connected to Shelly Cloud (recommended) and/or utilise Local LAN discovery

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

Shelly Features Supported

- 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 ModuleNG (Generation 3)

- Shelly H&T Gen3
- Shelly 1PM Mini Gen3
- Shelly 1 Mini Gen3
- Shelly PM Mini Gen3

Recommendations

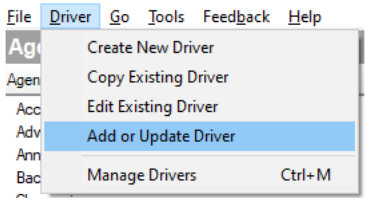
- Control4 OS3.2+ is required for this driver to operate correctly (including Auto-Setup). 3.3.0+ is required for Light V2 support (for native ColorWheel).
- Shelly NG / Generation 2 lighting modules require LightV2 and OS3.3.0+. We do not support the older V1 lighting drivers for Shelly NG devices
- T4's are strongly recommended for full compatibility with the Shelly web interfaces (although, we expect most installers will not provide web interface functionality to users). Some people have reported issues with the T3's and recent Shelly Firmware.
- Ensure all Devices are running the latest firmware available. We recommend doing so before adding to Control4. Some devices have known bugs in earlier firmware
- Cloud setup of devices is recommended instead of Local Discovery, to help improve reliability. Local discovery may not self-heal correctly in some circumstances
- We recommend using the Auto-Notifications Feature (available from the Shelly Cloud Agent) to notify on Emergencies and Battery Warnings. This feature requires 4Sight.
- Even with the Self-Healing features of the cloud driver enabled, we recommend the use of static IP's for the C4 primary controller and particularly for sleepy devices (as they may remain offline for long periods).
- Gen 1 Devices (Module Driver) override the devices Action URL's to ensure instantaneous operation. For that reason, programming should only be done within the Control4 interface, and not with custom Action URL's. Custom Action URL's may be overwritten at any time.

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.

Setup

Please note, the driver attempts to create all known bindings and events (with the exception of LIGHT Relay drivers, which may need to be added manually, and other relay integrations), however, some events/bindings are dependant on the configuration of the unit within the shelly web interface.

Common Setup



1. Add All Drivers using the Drivers Menu in Control4. Failure to do so may cause Auto-Setup to fail.
2. Commission All 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. If you plan to use the Cloud integration, ensure you assiciate the device to the cloud
3. Upgrade all Firmware
4. Sleepy devices (Generation 2 in particular) require either the cloud Enhanced Setup, or/and a static IP Address of the primary C4 controller and Shelly Device for reliable operation.

Cloud Enhanced Setup (Recommended)

Cloud integration is STRONGLY recommended, particularly for Sleepy devices (such as the Shelly Button) which only remain online for short periods. Cloud Integration enhances self-healing operations, but is NOT required. Please note, even with cloud integration, control of devices uses local network, and the cloud integration simply enhances management.

1. Add Shelly Agent To Control4. Please note, it will be available under Control4 Agents tab, NOT Devices
2. Ensure All devices on the Shelly App are associated to cloud. For existing devices on your network but not associated, you can log in via the phone app, click the device, Internet settings, cloud and associate to cloud / Enable cloud.
3. Set Default AutoSetup Room Property in Control4 for Shelly Cloud Driver. This will set the default location that Auto-Setup Devices will be added. We generally recommend making a dedicated room.
4. From http://control.shelly.cloud - Login, User Setup, Authorisation Cloud Key, and copy both Server and key into the Cloud Driver.
5. It is recommended to wake up all devices
6. Run the Auto Setup Action. All Drivers will be added automatically. Some Sleepy devices such as the Shelly Button may need to be woken up (by plugging into USB preferably, or 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)

LAN-Auto Discovery Auto Setup (Recommended)

This method is designed to facilitate fast setup of Shelly devices without Shelly Cloud. Please note, some devices (sleepy devices) may not be auto-discovered, and module auto-renaming may be incorrect. Cloud Auto Setup is recommended instead.

1. Add Shelly Agent To Control4
2. Enable Local Discovery in the Agent
3. Set Default AutoSetup Room Property in Shelly Agent
4. It is recommended to wake up all devices
5. 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.
6. We recommend enabling Auto-Notifications for Battery Warning and Emergency Alarm in the Cloud Agent (Requires 4-Sight)

Manual Setup (Without Shelly Cloud Agent)

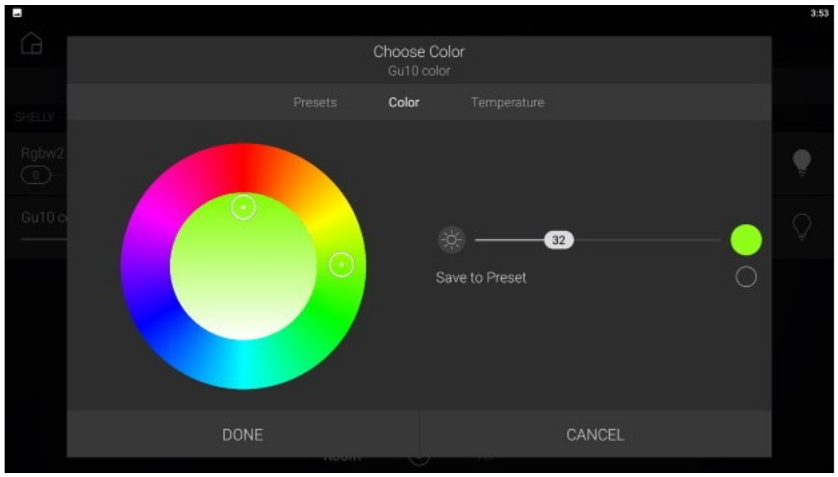
Please note, with this method, static IP for the shelly devices and C4 Controller are recommended.

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).

2. Type in the Device ID and IP Address. Details will be prefilled, and sub-drivers will be added automatically.
3. Some Sleepy devices such as the Shelly Button may need to be woken up (by connecting to USB or pressing the button), before they are correctly configured).

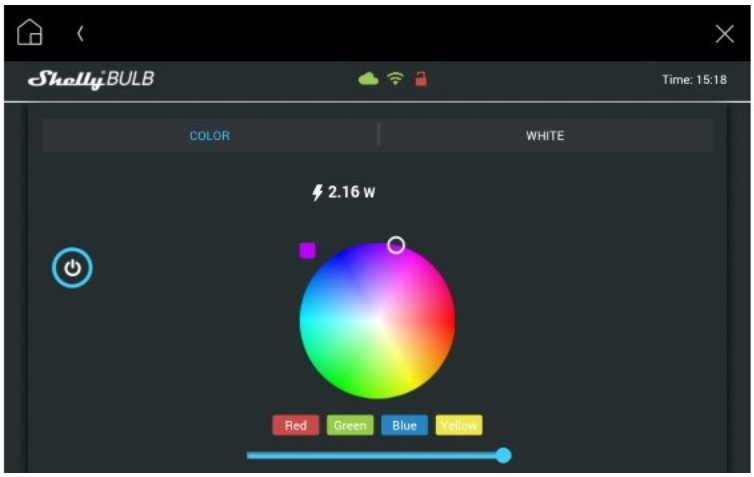
Color Wheel / Web View Support

Light V2



Our new OS3.3.0 compliant Light V2 driver has native support for ColorWheel and Advanced Color Lighting Scenes for improved usability and ColorWheel compatibility with mobile devices. It is strongly recommended to upgrade all customers to OS 3.3.0 and Light V2

Light V1 (Depreciated)



Module drivers also act as a Web View to the Device Admin Interface (useful for Color Wheel support). Please note, as of April 2021, Web View support is only available on T3/T4/+ touchscreens. T4's are recommended for best compatibility. To use, unhide the module driver in the comfort section in Composer in relevent Rooms.

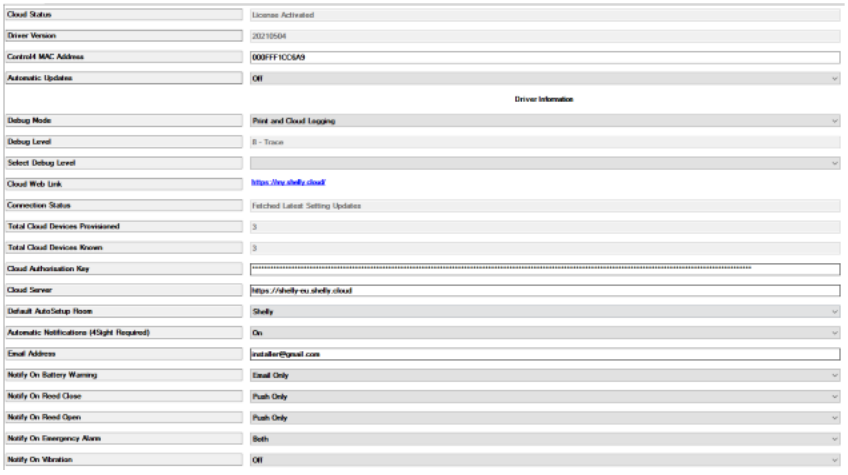
Properties

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

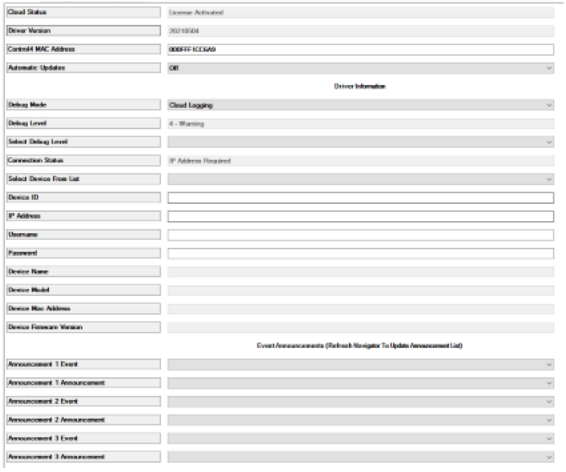
Shelly Agent (Optional)



- 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 Shelly Devices: Total number of Shelly devices connected to the cloud
- Provisioned Shelly Devices: Total Shelly Devices connected to the cloud with corresponding Control4 Drivers
- Unprovisioned Shelly Devices: Total Shelly Devices connected to the cloud without corresponding Control4 Drivers
- Total Drivers: Total Control4 Shelly Drivers installed
- Invalid Drivers: Total Control4 Shelly Drivers installed which do not have a corresponding cloud device
- Provisioned Drivers: Total Control4 Shelly Drivers installed with a corresponding cloud device
- Unprovisioned 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.

- 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
- 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

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 Device Directory: 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).

Frequently Asked Questions

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

- ABSOLUTELY NOT! This driver suite does 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, sleepy devices may operate better without LAN discovery enabled). Cloud or Cloud+LAN is the recommended operation of the driver

What requirements exist for 2nd/3rd Gen 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 following Shelly Devices have been tested and supported. Other models will likely work, but are untested.

This driver does not currently support Shelly BT Or Qubino devices

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 ModuleNG (Generation 3)

- Shelly H&T Gen3
- Shelly 1PM Mini Gen3
- Shelly 1 Mini Gen3
- Shelly PM Mini Gen3

NOTE: It may also work with other models however it is untested.

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

I'm unable to find the Shelly Cloud Driver

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

What is the difference between Shelly_module and shelly_module_ng

- Shelly Module is used for Generation 1 devices, Shelly Module NG is used for Generation 2 Devices (most devices released 2021 or after), such as the Shelly Pro 4PM, Shelly 1 Plus, or Shelly 1PM Plus . Please note, despite being released in 2022, The Shelly TRV is considered a Gen 1 Device. The Device Directory in our Shelly Agent can help distinguish between Gen 1 and Gen 2 devices

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

- Control4's T4 (or later) touchscreens are strongly recommended for WebView.
- 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.
    - If the problem is not rectified, rollback the firmware using http://archive.shelly-tools.de/ and use the "Wipe Touchscreen Webview Cache" Action afterwards 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.

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

- How does the trial period work?

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

- Where do I buy a Licence from?

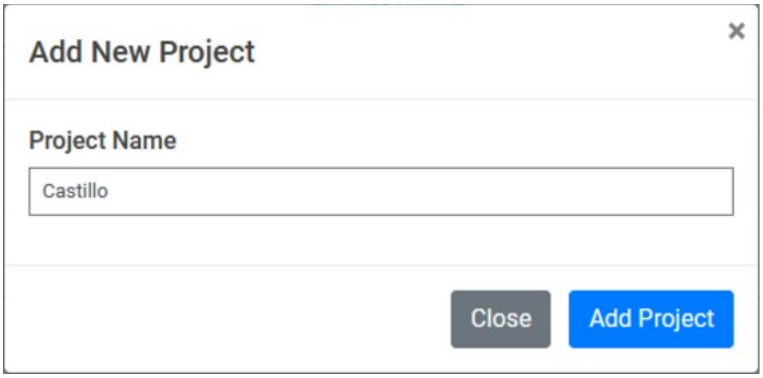
  This driver is developed by Chowmain software & Apps and is distributed by driverCentral, Inc https://www.drivercentral.io/chowmain-ltd

  To purchase a driver:

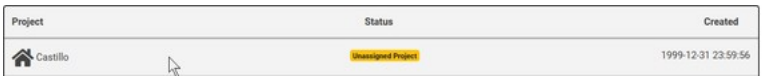
  1. On driverCentral, purchase a license and register it to your project
  2. If the driver is not already installed in your project, download it and install it
  3. If necessary, use the cloud driver's Action: "Check Drivers" to force the licence to download into the project

Creating a Project on Driver Central

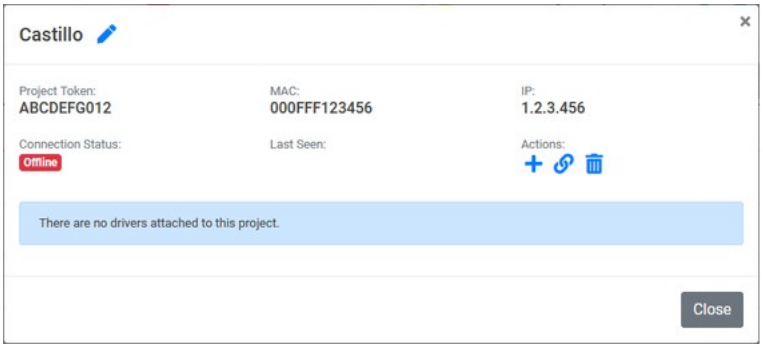
1. Visit http://www.drivercentral.io
2. Log into your driver Central dealer account
3. Click **Portal**
4. Click **New Project**
5. Enter the project name



6. Click **Add Project**
7. Click on the project we just created



8. Take note of the **Project Token** as this will be used later when we install the Cloud Driver



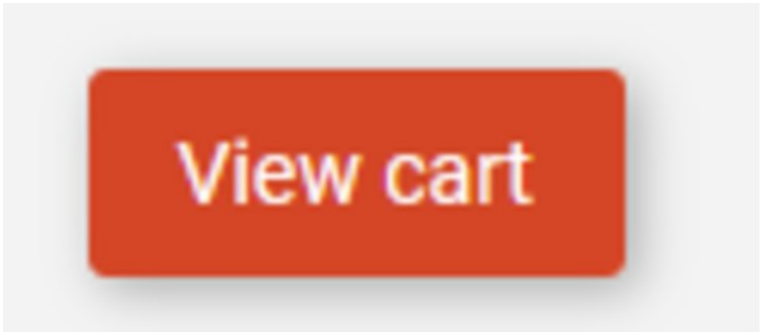
9. Click **Close**

Purchasing a Driver Licence

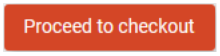
1. Visit https://www.drivercentral.io/chowmain-ltd/ and find the product/driver you want to purchase a licence for

2. Click on **Add to Cart**

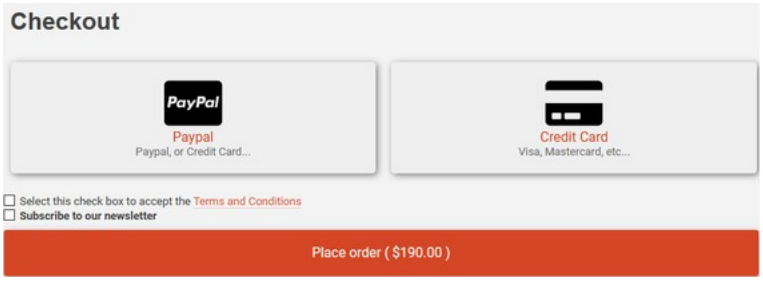
3. Now click the shopping cart icon (top right) and click **View cart**



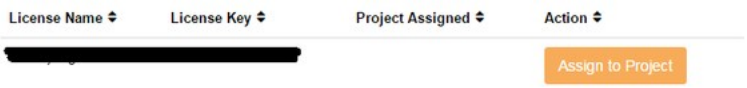
4. Confirm that your order is correct and click on **Proceed to checkout**



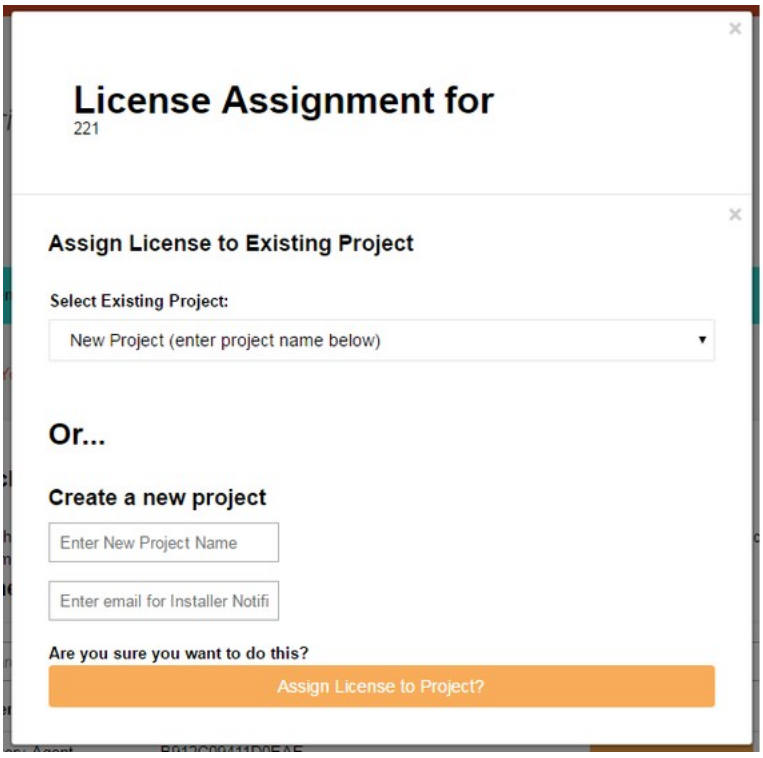
5. Choose your payment option, provide the relevent details and click **Place order**



6. You will now be at a page where you can see your purchased licence

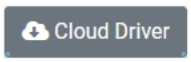


7. From here assign the licence to the project we created or if you did not follow that step create a new project

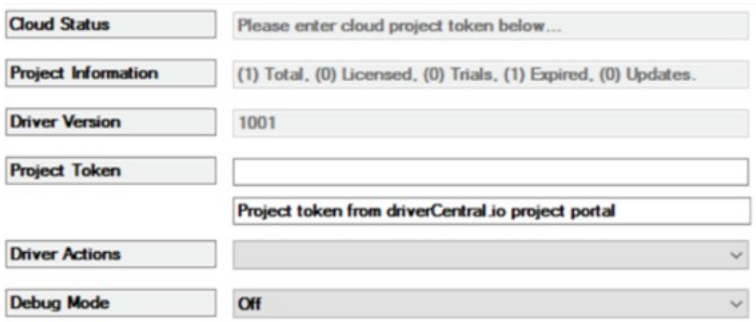


Install the driverCentral cloud driver

1. Visit http://www.drivercentral.io
2. Log into your driver Central dealer account
3. Click **Portal**
4. Click **Cloud Driver**



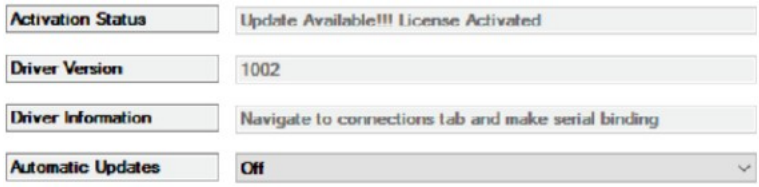
5. Copy the C4Z driver to My Documents\Control4\Drivers directory
6. Add the driver to your project
7. Click on the driver to view it's properties



8. Type in the project token we took note of earlier
9. Click **Actions** tab
10. Click **Check Drivers**

Install Chowmain driver

1. Install the Chowmain driver
2. You will notice that the Activation Status reflects a Licence Activated state
3. Any driver that does not have a purchased licence will have a trial licence activated via the marketplace
   Note that there is no way to reactivate the trial so please use wisely
4. If you do not then press the Check Drivers action in the driverCentral Cloud driver again



Developer Information

Information stated in this document is current as of July 2020 and may change. For latest information please visit http://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
American Support Desk	8:30AM – 4:30PM Mountain Time	https://help.drivercentral.io/

Phone Support

Support Center	Hours of Operation	Phone Number
Australian Support Desk	6:30AM – 5:30PM Australian Eastern Time	+61 3 9028 6999

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

Versiom 20240410 - 2024-APR-10

- [Bug] Fix Compatibility with some controllers

Version 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)

Version 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)

Version 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.

Version 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)

Version 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)

Version 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)

Version 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)

Version 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)

Version 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

Version 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)

Version 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

Version 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

Version 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)

Version 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)

Version 20220908 - 08-SEP-2022

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

Version 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)

Version 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

Version 20220609 - 09-JUN-2022

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

Version 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. Depreciated 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

Version 20210511 - 11-MAY-2021

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

Version 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

Version 20210504 - 04-MAY-2021

- Initial Public Release