Control4 Getting Started Guide

For Hypnotik Gateway and Devices

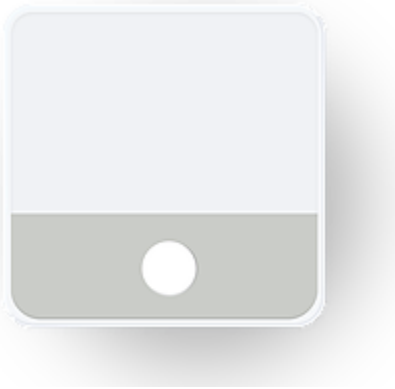
Overview

Hypnotik provides you with an ecosystem of smart devices able to connect with Control4. Among these devices we have:

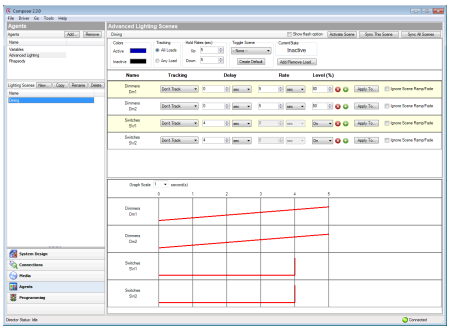
- The Hypnotik Gateway, which connects Control4 Automation Controllers with Hypnotik Smart Devices
- Smart Led Strip Controllers
- Smart Scene & Dimmer Switches
- Matter over Thread Gateway
- BLE Mesh Smart RGBCW Lights
- Matter Shade controllers

Definitions

In this Getting Started Guide we will use the following items:



The Hypnotik Gateway

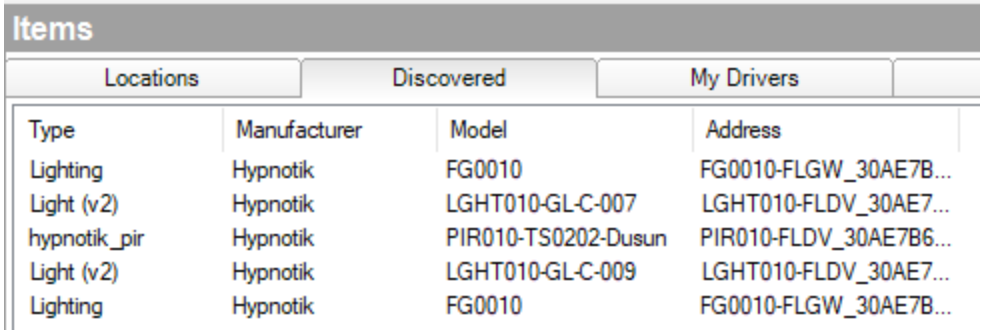


Control4 Composer Pro

Hypnotik Smart Devices

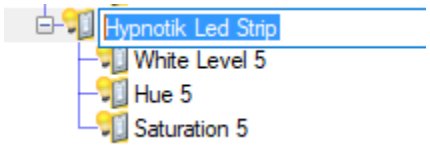
Configuring your Control4 Project with SDDP

Once your devices are paired to the Gateway, please head to the “Discovered” tab in “Composer”. All the devices that have not been added to the project yet will be shown in the list:



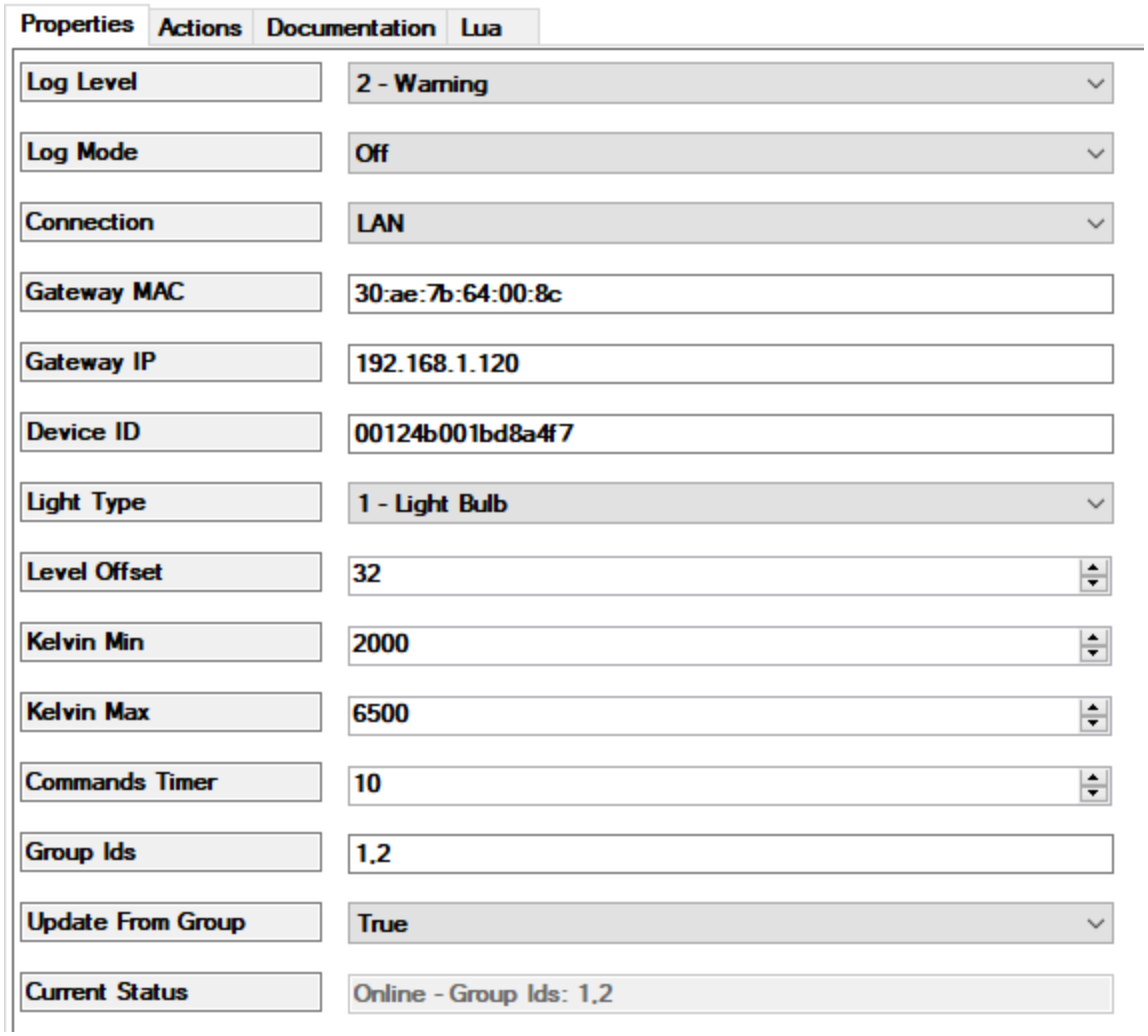
Please don’t forget to add your Hypnotik Gateway to your Control 4 project to take full advantage of the Hypnotik ecosystem.

To add a device to your project, just double click on the item in the list and it will be added to the current room:



You can now change its name and review its properties. When you change the name of a device added through the “Discovered” tab, all the nested devices will be changed too.

Thanks to the SDDP protocol, your device’s properties will be automatically filled in with the Gateway IP Address, MAC Address, Device ID and Device Type:

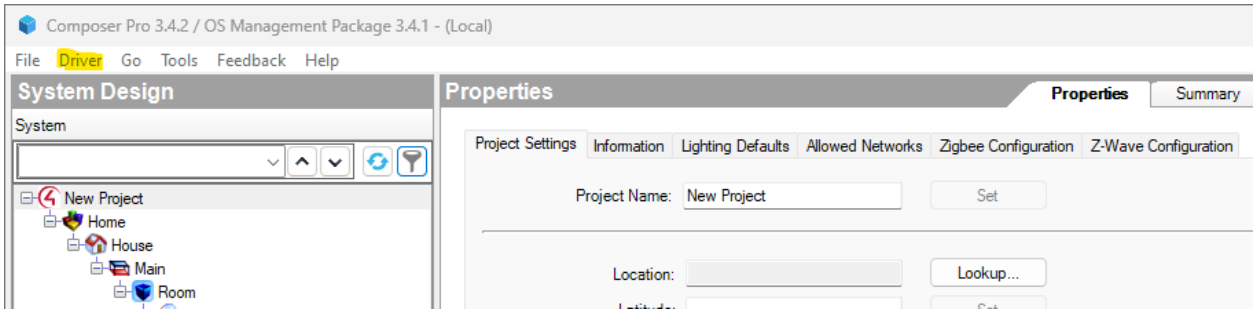


Configuring your Control4 Project without SDDP

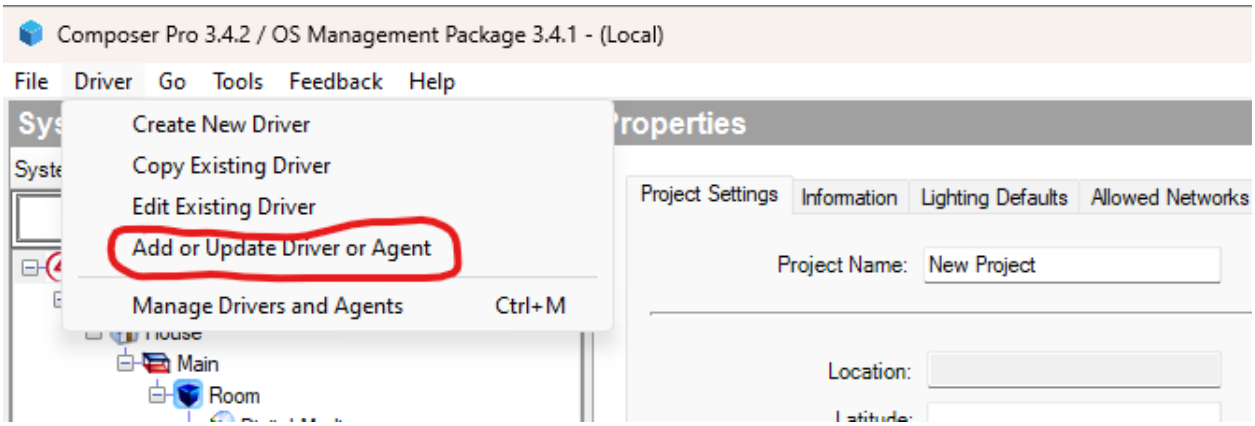
If no device is found by the SDDP or SDDP is incorporated in the devices then use composer pro or composer express to insert the device in the Control4 system. You must have the necessary device drivers in the device where composer pro or composer express is installed.

Composer Pro
Use default driver location path for composer pro so that Composer pro can add the device to the C4 system. Example: (C:\Users\username\OneDrive\Documents\Control4\Drivers) for the windows and one driver account added in the windows.

I. Click Driver in Composer Pro



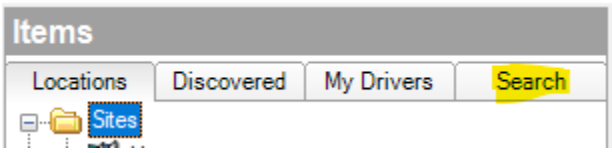
II. Then Click *Add or Update Driver or Agent*



III. Add required driver

If the above step does not work then the following steps will help.

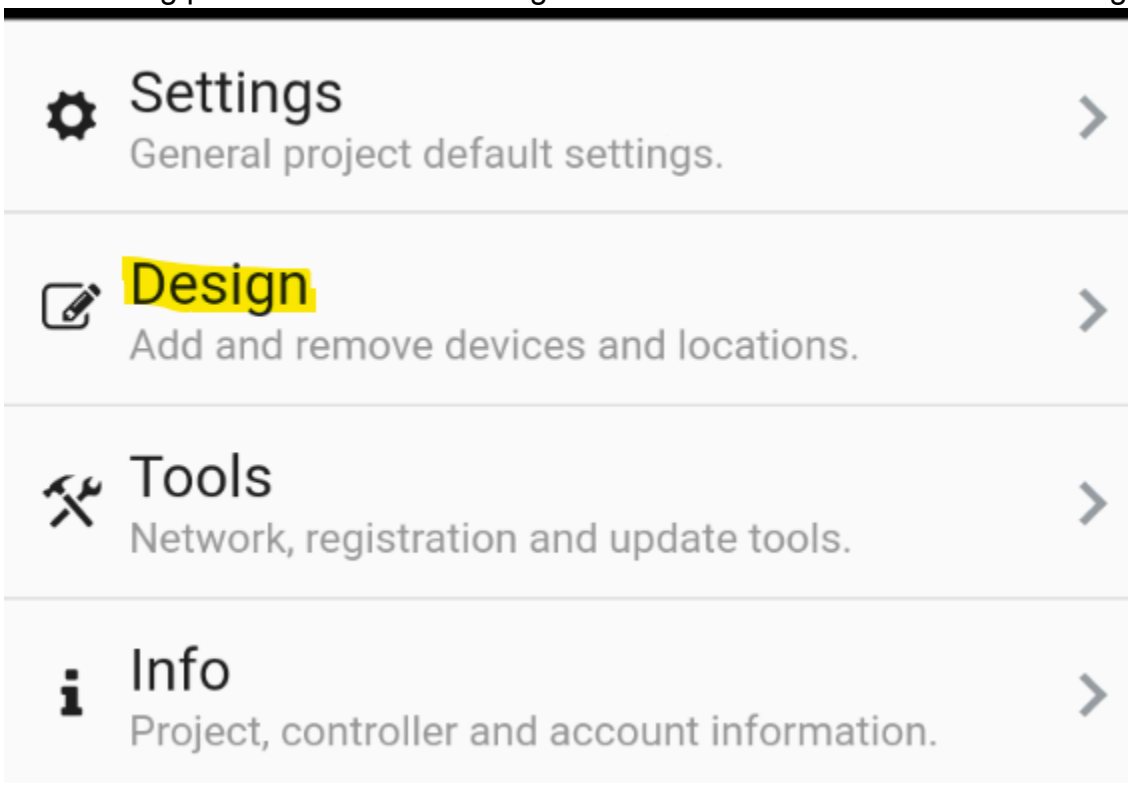
Click the Search button the composer pro.



There will be an option to choose the search process between from local and online. Select the local option for searching the driver in the local device and select online for searching the driver from the C4 cloud. Then type your driver name and click search. Look for your driver in the search list and double click to add the device in the C4 system.

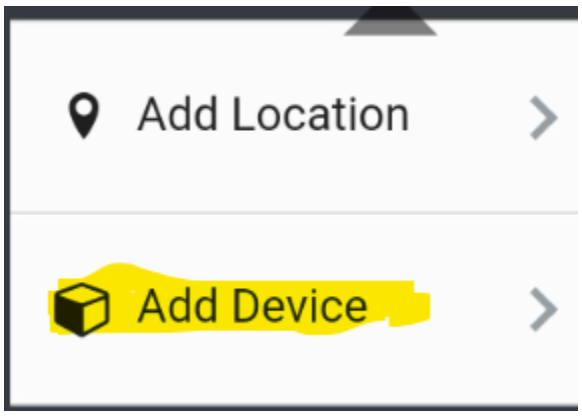
Composer Express

If you are using composer express to manage devices in the C4 system. Then follow the following process. After connecting to the device the controller. Select Design,

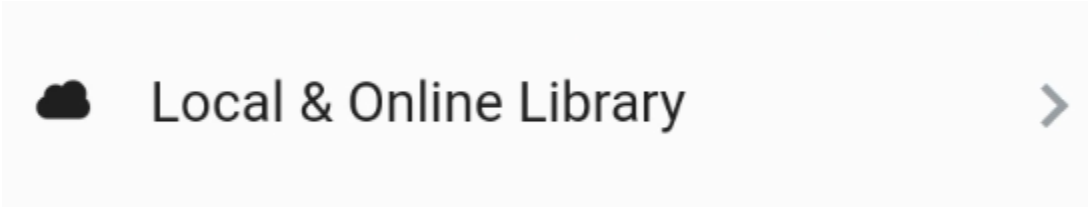


Click the plus image in the top bar.

Then select the Add Device option.



New select Local & Online Library option.



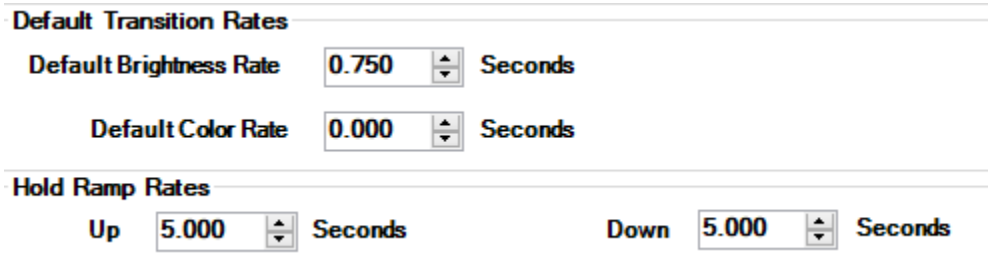
In this UI you can type your driver/device name in the search area and select your device driver which will add your device driver in the C4 system.

Drivers Reference

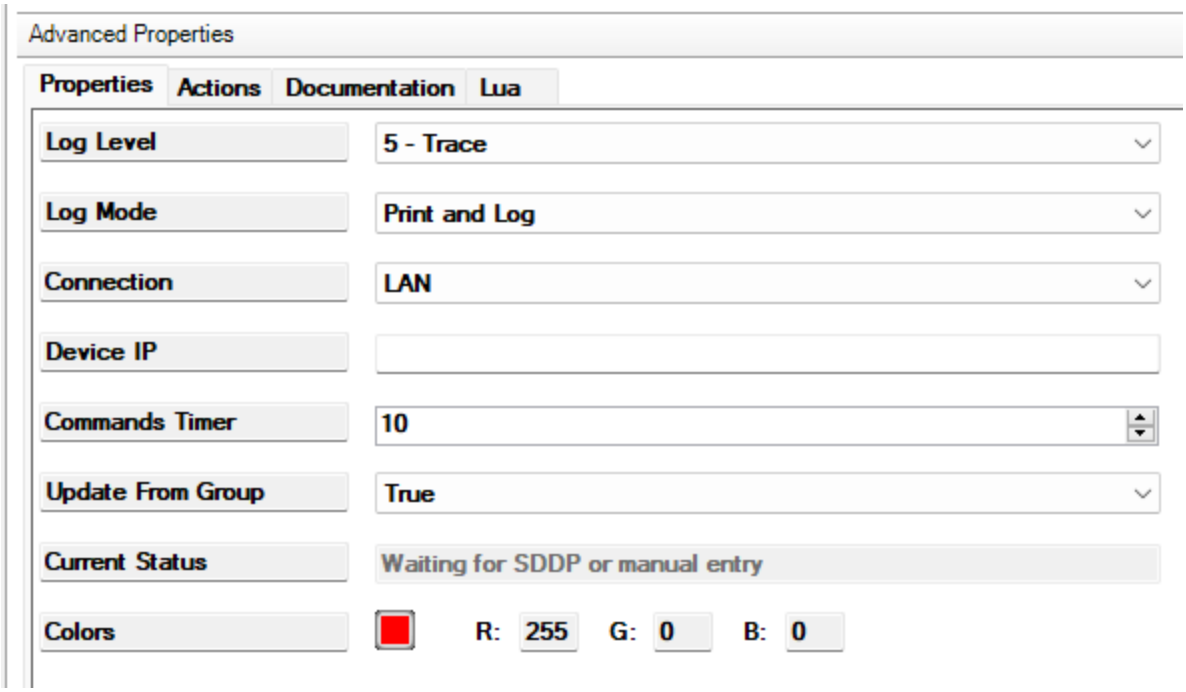
Hypnotik WLED Lights

Properties

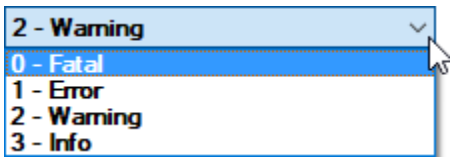
Like every lighting driver, you can set some common behavior of the device like Click Rates, Preset Level and Hold Ramp rates:



In addition, you can also customize the following parameters:



Log Level
Allows the user to specify what information should be reported in the Lua tab between:



Log Mode
It allows the user to enable and disable logging, as long as printing of the information from the driver.

When requesting the list of devices within Composer (see “Actions” below), you need to select “Print” in this field.

Connection
At the moment, only LAN connection is available.

Light Type
It's used to specify if the device is a Led Strip or a Light Bulb. This affects the driver internally and you should leave the value set automatically by the SDDP protocol.

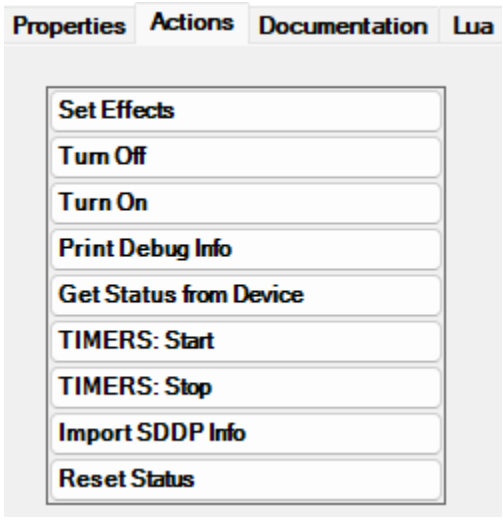
For certain devices, a small idle time is added to ensure the device has finished ramping up/done or changing color before receiving another command. For example, if you would turn the device on and off very fast, the device will actually turn off only after the ramp up is finished.

Commands Timer
Allows controlling how frequently the control connection should be functioning for Input/output operations.

Current Status
Shows the current status of the connection. If the connection is working properly, it will show "Online". Otherwise, please check your network or the Gateway IP and Gateway MAC address above.

Actions

Under the Actions tab, you can find some tools that will help you troubleshoot or interact with the device.



Get Status from Device
This feature allows retrieving the current Brightness, White Temperature, Hue and Saturation from the device. The update will take a few seconds.

Timers: Start, Timers: Stop
These features allow you to stop and restart the main timers used to send commands to the device and retrieve its status.

Reset Status
This action allows you to reset the driver and sync with the device again.

Set Effects
This feature is for testing Light Effects response from the light device.

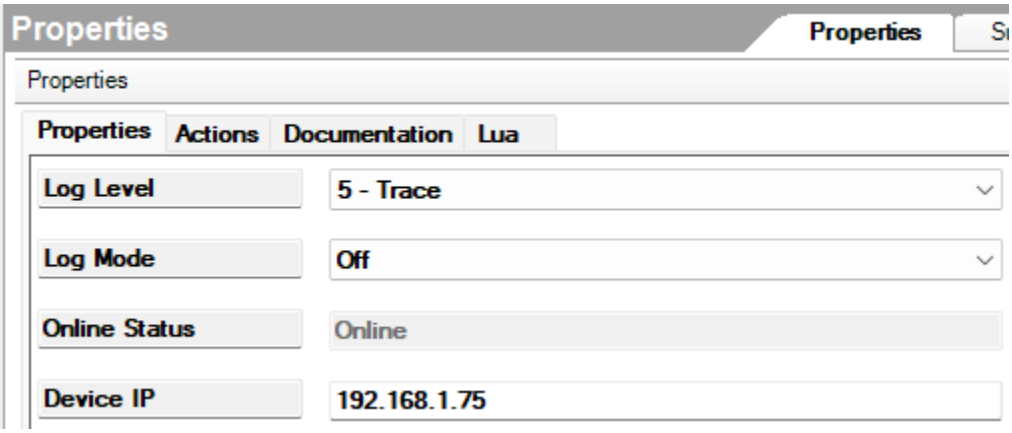
Turn Off, Turn On
This feature allows you to turn on and off the light from the composer pro.

BMS BLE Gateway

This driver is responsible for communicating with BLE gateway and controlling various aspects of the device.

Properties:

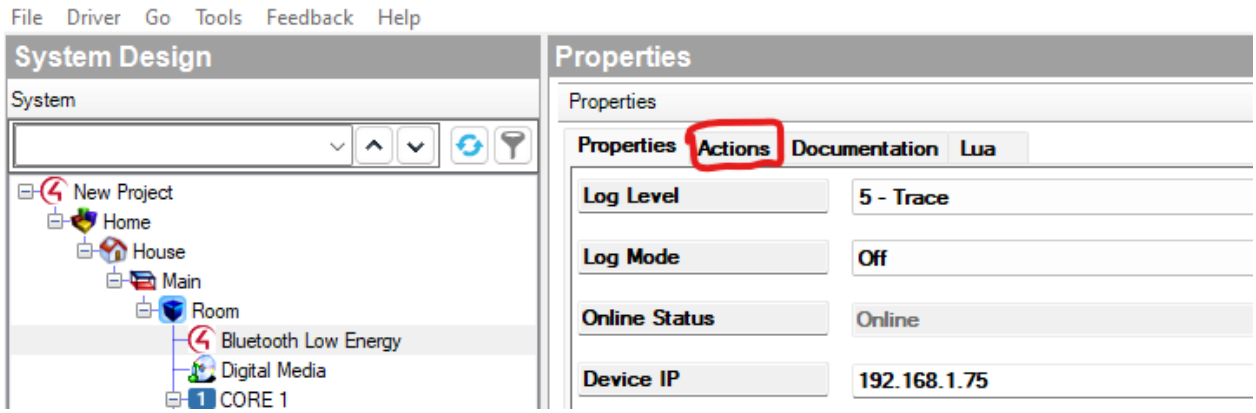
It is the device properties of the gateway that is visible in the composer pro. It is available in the composer pro *Properties* tab.



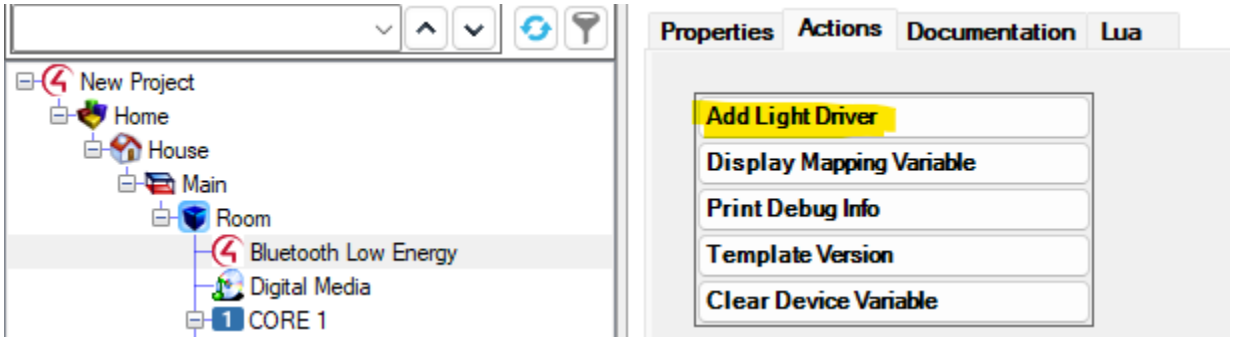
Log Level and *Log Mode* properties are used for driver development. *Online Status* property tells about current status of BLE gateway, whether driver has made connection with driver or it is disconnected. *Device IP* holds the IP address of the gateway, it is needed to add during the installation of the device using composer pro.

Adding Light Driver form Gateway Driver

I. Click Action tab from BLE gateway driver

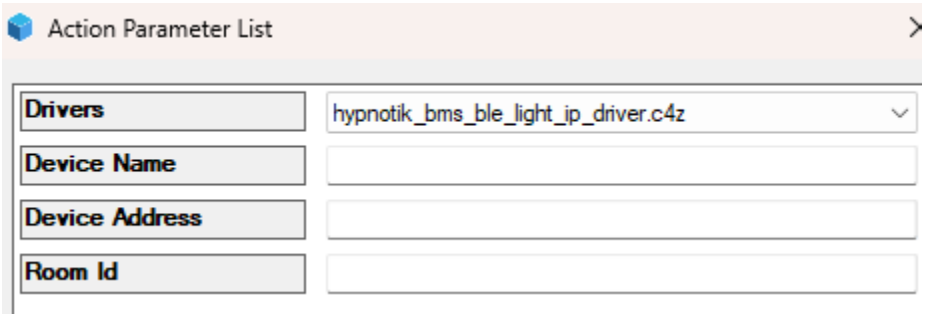


II. Click *Add Light Driver* action in the tab



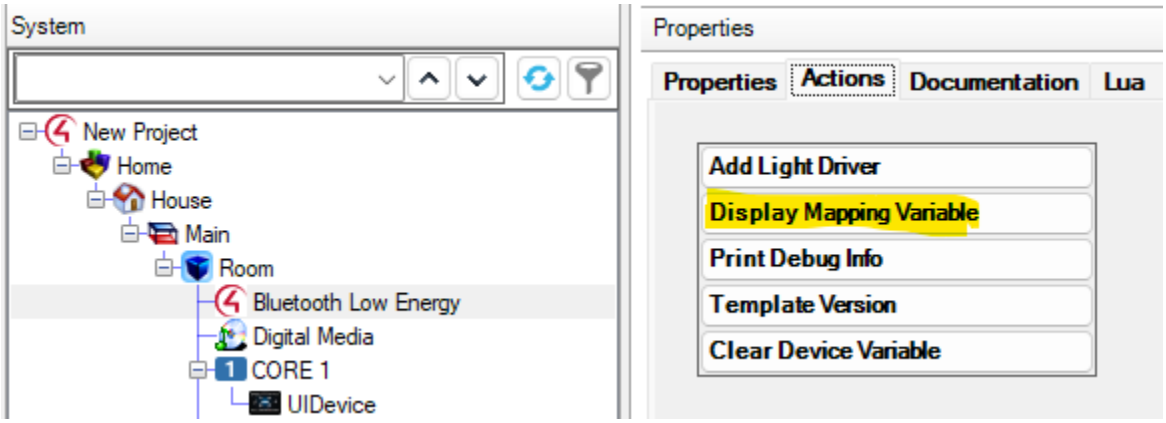
III. Select Light Driver from the list in *Drivers* parameter. Input Name of the light as user choice in *Device Name* parameter. *Device Address* is input for device address provided by cosmic node (application) or gateway web portal or other application connecting the gateway and devices. *Room Id* parameter is for adding a light driver in a different room than the gateway driver is located. If no id

is provided then a light driver is added into the room where gateway driver is present. Its input must be a number provided by composer pro.



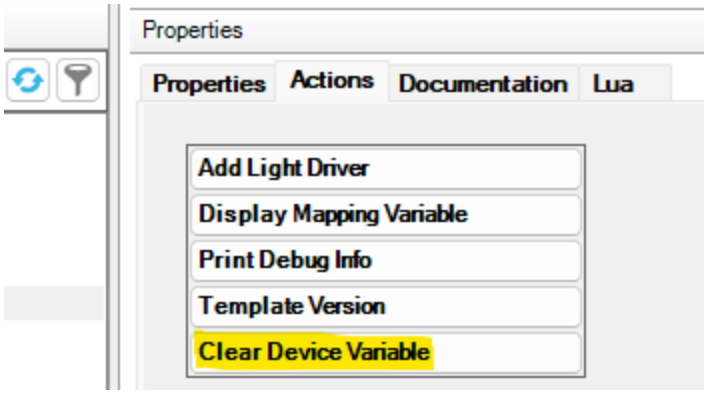
Display Connected Device Details

This action is to display all the device driver control4 is controlling currently. It displays control4 driver id from composer pro, device address from gateway web portal or application and name displayed in the control4 system.



Clear all the Device Data from Gateway Driver

This action will clear all data related to devices stored by the BMS BLE Gateway. It is to be used when all the light devices have been removed from the C4 system.

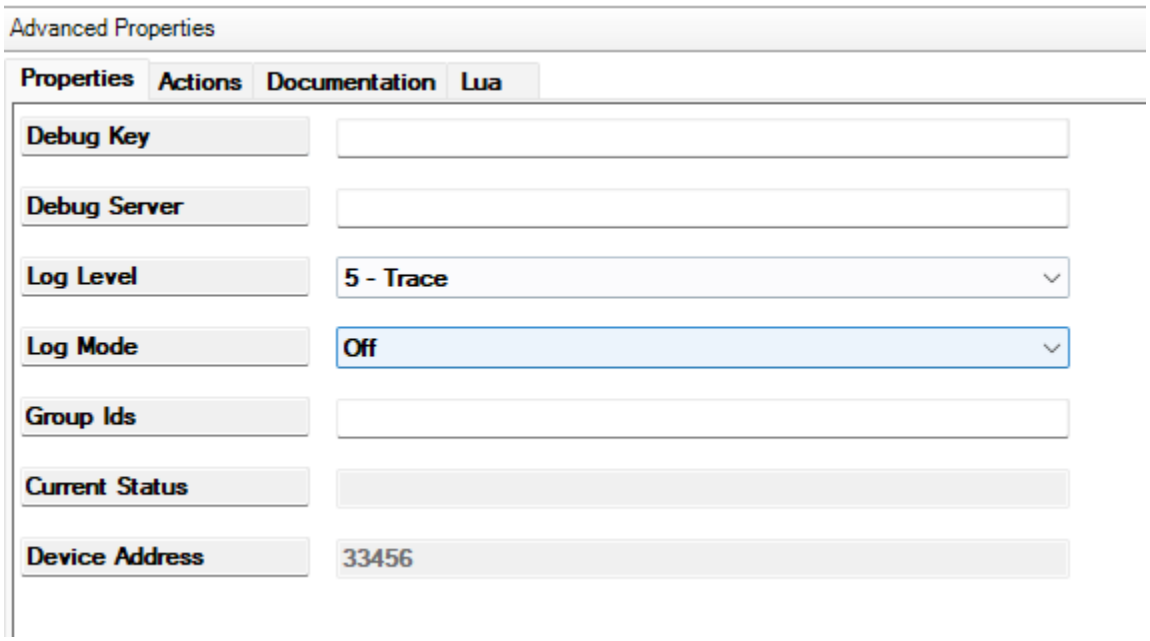


BMS BLE Light Device

This Driver is responsible for controlling all the light device actions connected to the BLE gateway. Using navigator to control the light device, it sends the necessary API to the gateway for further processing.

Properties:

It is the device properties of the BLE light driver that is visible in the composer pro. It is available in the composer pro *Properties* tab.



Debug Key, Debug Server, Log Level and *Log Mode* are used during the driver development and the testing. It is also used during the installation of the driver to check log output for each device action performed.

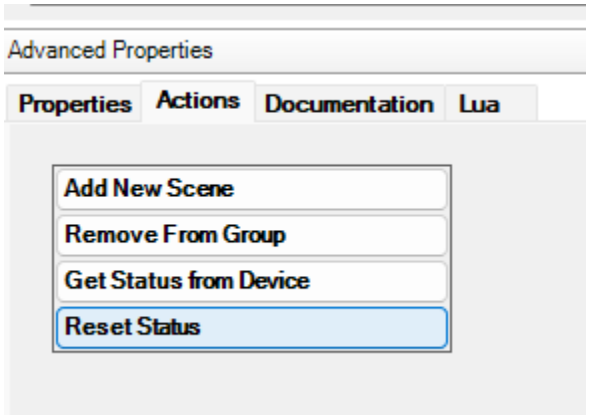
Group Ids used for adding the light device to a group of light devices of provided ID, if no group then creates new.

Current Status shows current connection status with the device.

Device Address displays the address of the device it is allocated to.

Action:

It is the action provided to change the device address of the device. When *Device Address* value from light device properties is not visible in the web portal or application, connection is made to new device



Add New Scene is in the development and testing stage. It has number of parameter required for add the scene

Remove From Group will remove the light device from the group id represented by the *Group Id* shown in the Properties tab.

Get Status from Device will request device status api about the device address by *Device Address* in Properties tab..

Reset Status will stop the current timer setup by the device driver and start a new timer for api requests.