NEO SMART BLINDS

Drive integration for Neo Smart Blinds Controller with Control4 system

Step 1: Connect the Smart Controller to Wifi

Using a smartphone or tablet, download the Neo Smart Blinds Controller App by searching **Neo Smart Blinds** on Google Play Store or on App Store or use the Chrome App version at **app.neosmartblinds.com.** Use the links in the right side for quick access.

Create an account using a valid email. Enter the setup code provided in the manual.

Follow the in-app instructions for connecting the device to your wifi.

If necessary, visit our website for detailed instructions. **neosmartblinds.com/smartcontroller-help/**

Step 2: Create rooms and pair blinds

After WiFi connection is completed, proceed with the configuration of the rooms and blinds. Layout Rooms and Blinds to the needs they will have with Control4 automation. It's very important to layout your blinds in a way that will support better the automation of your scripts.
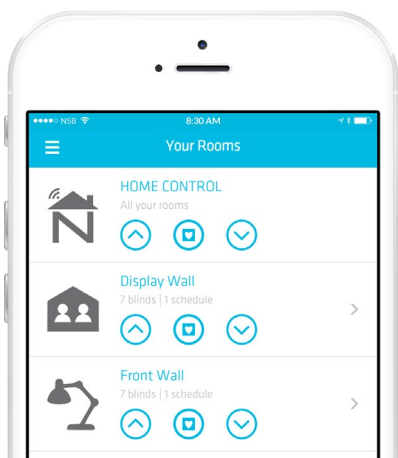

Image 1: Rooms layout (app view)

Additional information and tips for layouting the rooms

In the example here, we have a large room, called **Showroom** on Composer.

There are blinds in 2 of its walls and we might need to move the blinds from each side of the room at different times. For this reason, using our app, the blinds were grouped in 2 different rooms, named **Display Wall** and **Front Wall**.

There is no problem to make only one room with all the blinds at that room, but it will more difficult to make some scripts. It will always depend on the particular locations and controls needed.

Each motor can be paired, added to multiple rooms if necessary. Just repeat the process **add a blind** with the same blind into multiple rooms.

In our example we could have also created an additional room, called **Showroom**, with all the blinds paired to that room. Additionally, you can create a room **First Floor** with all blinds on the first floor, it all depend of the particular needs of each location.

IMPORTANT: There is limit though of 15 blinds per room and deleting a blind from a group don't open space for an additional blind. If needed to re-layout a room, it's better to delete the full room and start that room over. That's a limitation of the RF technology used by this class of motors.

Step 3: Find the Smart Controller local IP address

Still using the app, go to the Menu **Configuration**, then tap on the option **Your Controllers**. This view shows the controller IP address, this information will be necessary for configuring the driver.

Make sure the Controller is connected to the same network that Control4 system is running and that the IP address is set to static. Take note of the IP address.
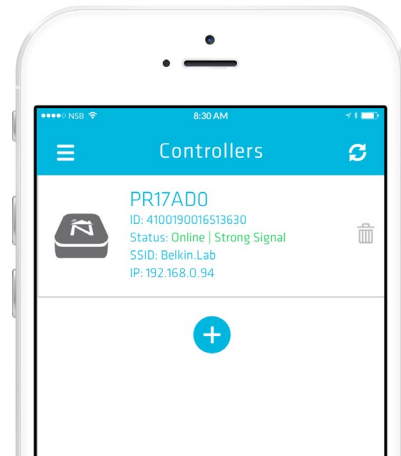

Image 2: Controllers (app view)

Step 4: Driver Installation

Add the driver **NEO Smart Blinds Controller WC100** to your project. Each driver you add to the project can be configured as an individual **blind** or a **group** using the property **Controller Mode**.

A **group** will control multiple blinds, it's the room equivalent from the app. Very similar way done using a group channel for a physical remote.

For each of the rooms with blinds, add drivers to your different rooms, set **Controller Mode** as **group**. Rename the drivers, there is no need to use the same names from the app.

At each room, add one additional drivers to each blind you have at that room, leave **Controller Mode** as default **blind**. Rename the drivers for reference.

In the example below, we have a room named **Showroom** with 2 groups: **Display Wall** and **Front Wall** and theirs respective individual blinds.

A driver configured as **group** will control all drivers using the same **Controller_ID 1** and **2**.

A driver configured as **blind** will control an individual blind or multiple blinds paired to the same channel.
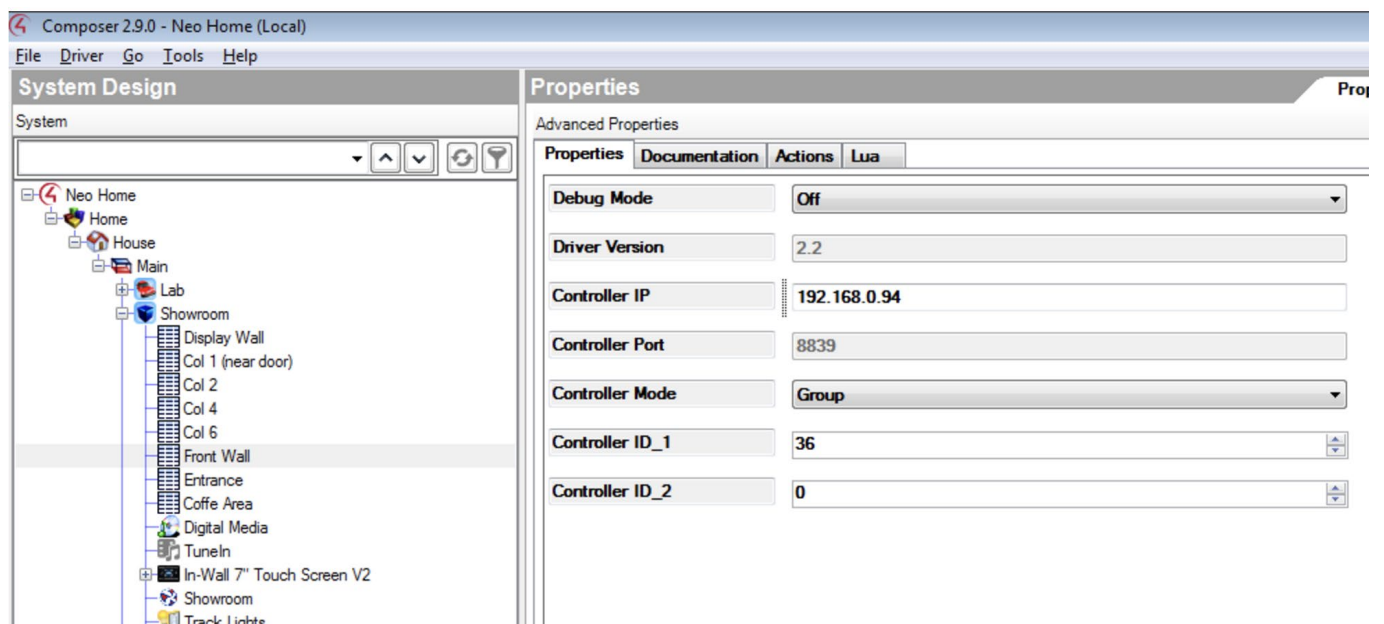

Image 3: Group driver (composer view)

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Step 5: Group driver configuration

Make sure the Controller box is powered and online. Set up the controller IP address found at the app screen **Your Controllers**, image 2.

Use the Action **test connection** to test the IP configuration before proceeding. Go to the Lua tab, a message "Testing connection" will indicate the connection test was initialized, test takes 5 seconds.

If the connection fails, the message "Connection fail - Timeout" will be displayed. If connection test succeed, there will be no message displayed.

Only for the drivers configured as **Group Mode**, using the app, go to one of the blinds advanced page to find the necessary ID numbers. See images 4a and 4b. Repeat this procedure for one blind from each group/room.

Front Wall > Entrance	Display Wall > Col 1 (near door)
Room Code: 036.000-15	Room Code: 036.002-15
Controller ID_1 = 36	Controller ID_1 = 36
Controller ID_2 = 0	Controller ID_2 = 2

Fill the fields **Controller IP, Controller ID_1** and **Controller ID_2** for all the group drivers, each one must have their unique Controller ID code combination.
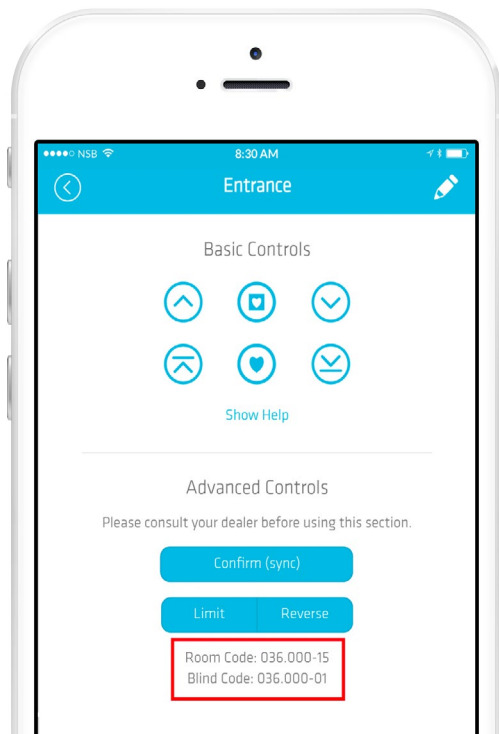

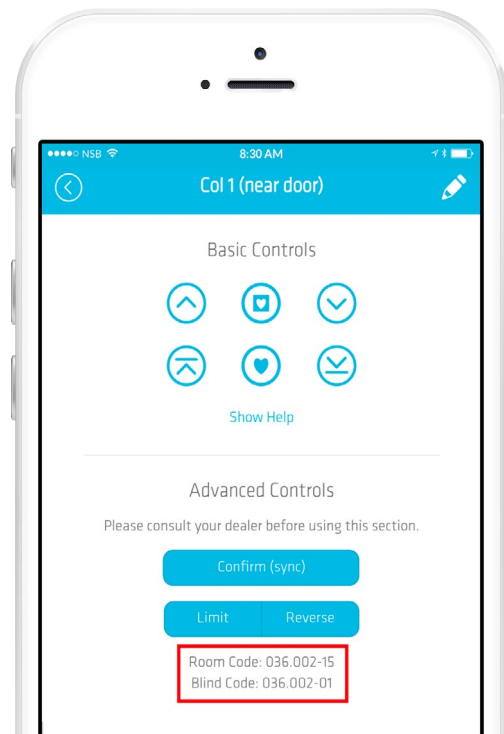*Image 4a: Blind advanced page (app view)*

Image 4b: Blind advanced page (app view)

INFO: For the moment, ID_1 will repeat for all rooms within the same app account, and each room will have a different number. That will change for future updates of the app.

Step 6: Blind driver configuration

For each driver configured as **blind** either chose the **ASSOCIATED GROUP**, that will fill automatically the fields Controller IP, ID_1 and ID_2 or enter the values manually.

Last configuration is the Motor Channel also be found at the blind advanced page for each blind, images 4a and 4b.

Front Wall > Entrance

Blind Code: 036.000-01

Motor Channel= 01

Front Wall > Coffe Area

Blind Code: 036.000-02

Motor Channel = 02

Display Wall > Col 1 (near door)

Blind Code: 036.002-01

Motor Channel= 01

Display Wall > Col 2

Blind Code: 036.000-02

Motor Channel = 02

Step 7: Custom scripts

IMPORTANT: When creating custom scripts, it's important to know that each command sent using the driver takes about 500ms to be transmitted. At this point, there is not a central driver manager to buffer the TCP connection with the controller. That said, it's absolutely necessary to add a delay of, at least, 500ms between multiple calls to the drivers. As you can see on the image 5, there are 2 calls, one to each Group driver and a delay of 500ms between the calls.

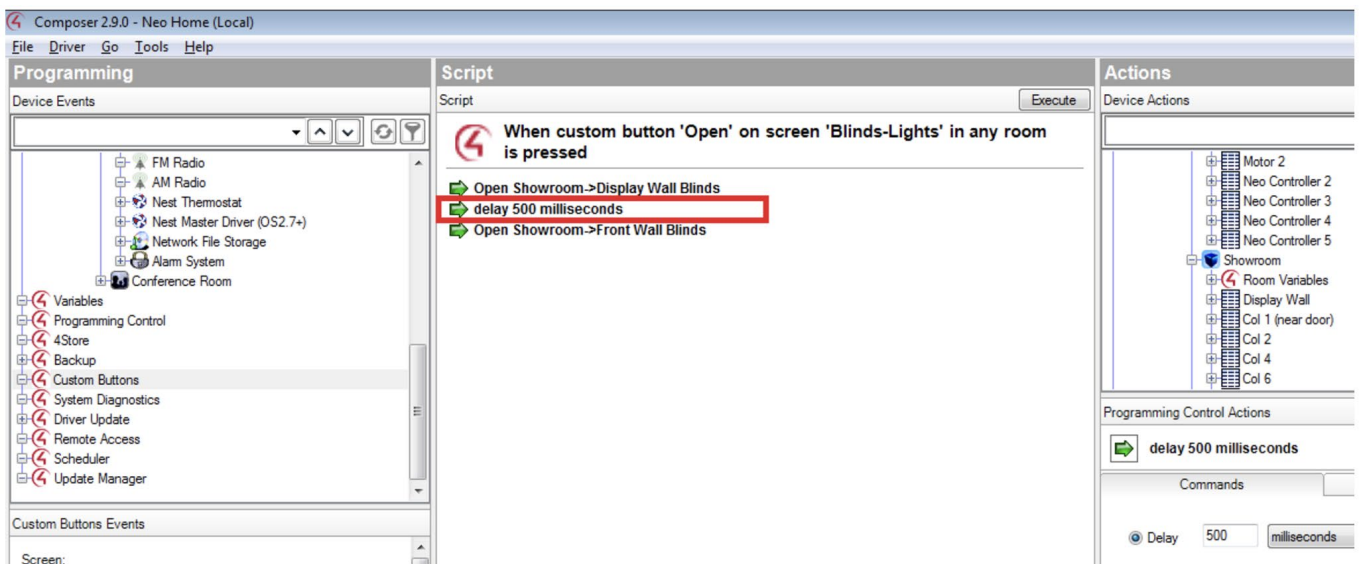Create scripts and scenes using the available commands: UP, STOP, DOWN and Preset.

Image 5: Group driver (composer view)

IMPORTANT: Prioritize the use of the Group drivers rather than a long list of individual blinds, minimizing delays to move larger amounts of blinds.