Controlling the Somfy Sonesse 50 shade motor via RS-232 with Total Control.

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This article covers how to configure Total Control to work with the Somfy Sonesse 50 shade motor via RS-232. This includes gathering the information to control the motor, and creating a driver for use in Accelerator.

Gathering information to control the motor:

First download and install the following Somfy software programs (click name to download), then follow the steps:

- **Somfy SDN Motor Configurator 5.2**
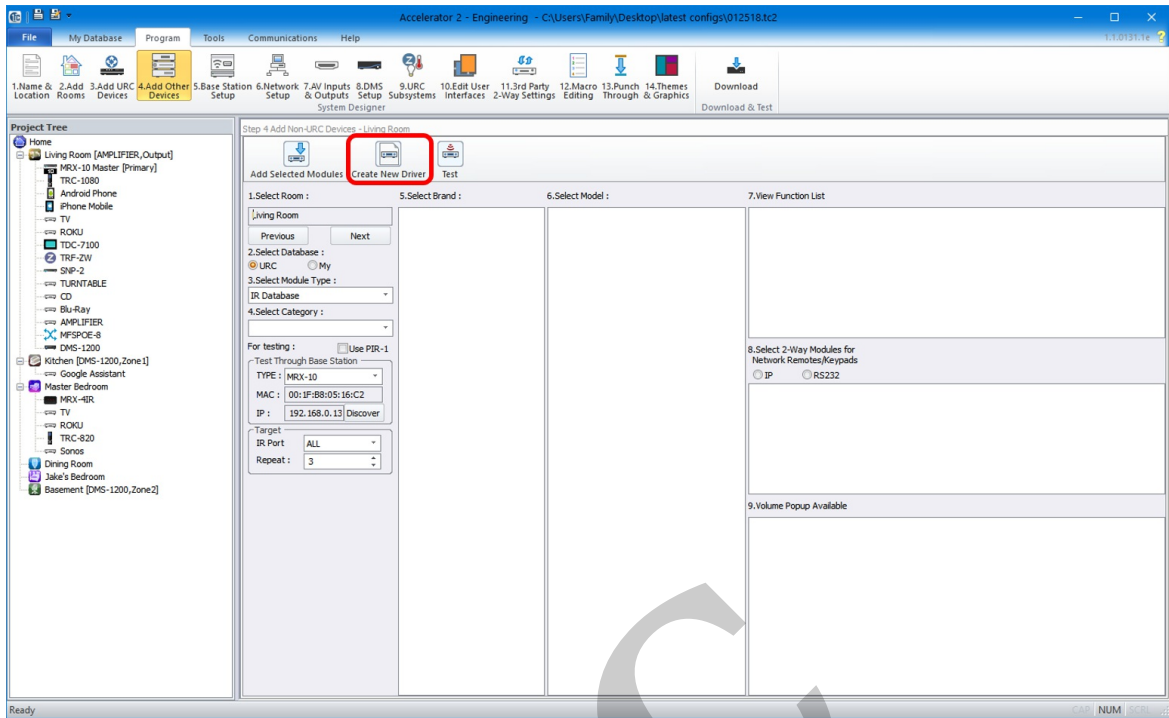
- **Somfy ILT Command Calculator**

1. Open the **Somfy SDN Motor Configurator** and the **Somfy ILT Command Calculator** programs on your computer.

2. Connect the motor to the **Somfy 485 Setting Tool.** Next you need to get and write down the **Node ID** and **set Up and Down limits for the motor** using this tool before proceeding to Step 3.

3. Connect the **USB** to **RS-232** cable to computer.

4. Install the **B&B RS-485 Electronics** converter and add the external power supply **(12V DC 1mA)** to the motor. **Connect** the cables together and select a **COM PORT.**

5. Go to the **Somfy SDM Motor Configurator** program and connect using the
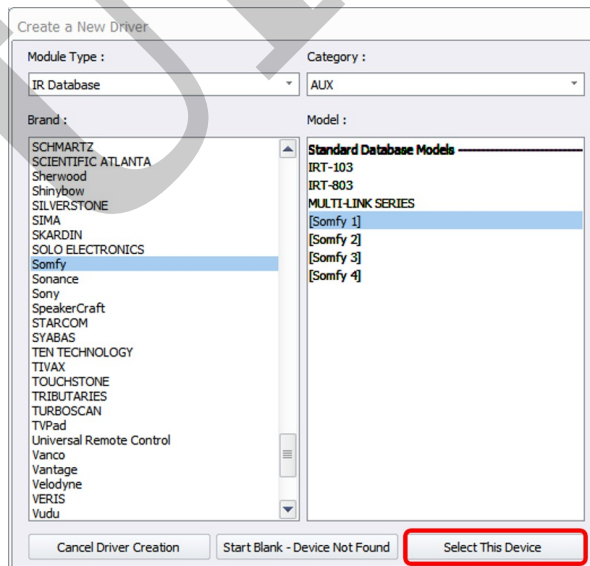
active **COM PORT**

6. Select the **Single Option** and select **Get Single Motor Address** (This should be the same **Node ID** that you retrieved in Step 2).

7. Go to **Group Address** and add a group starting with **200000, keeping in mind that each motor requires its own group (example 200000, 200001, etc.)**

8. Next, go to **Set Groups.** Groups will now be displayed.

9. Now go to **Test: Select limit up / Limit Down** (Motor will move to previously limits set in Step 2.)

10. Go to the **Somfy SDN String Calculator** program

11. Select **Group Address & All Commands**

12. Type in the **Group Address** for the motor (example 200000) and then **Calculate.**

13. The commands are the **hex codes** for creating a driver for **Accelerator.**
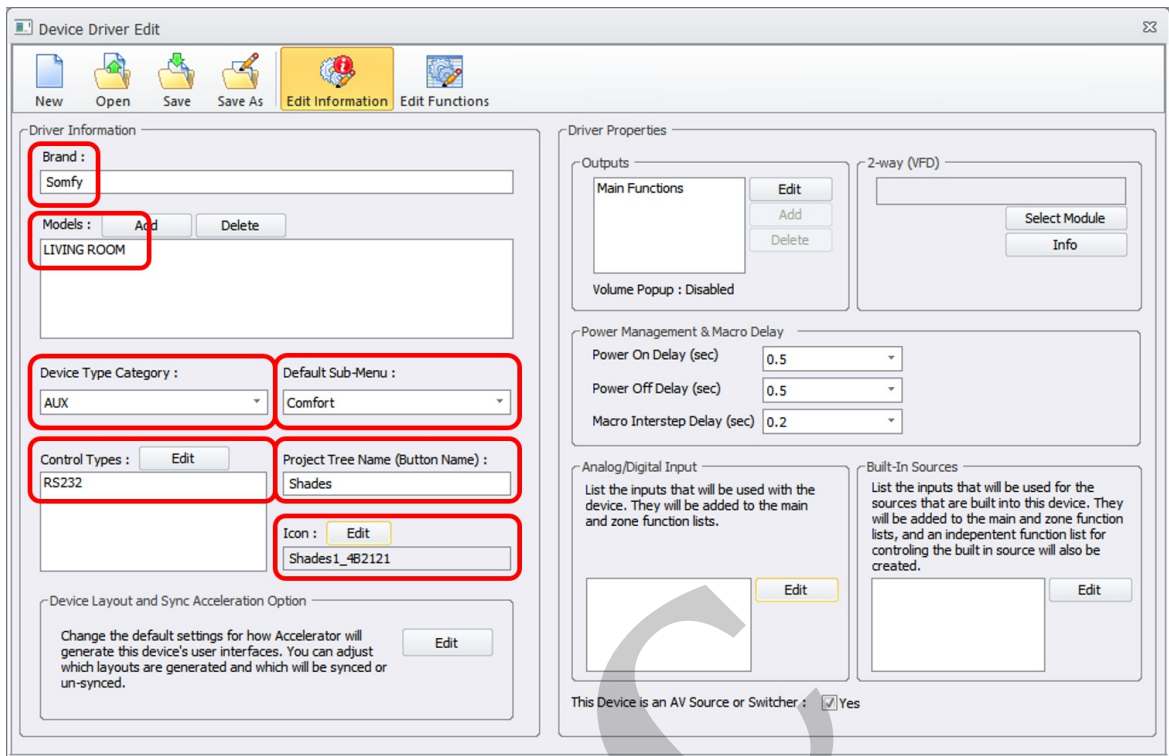
Creating the Accelerator driver to control the motor:

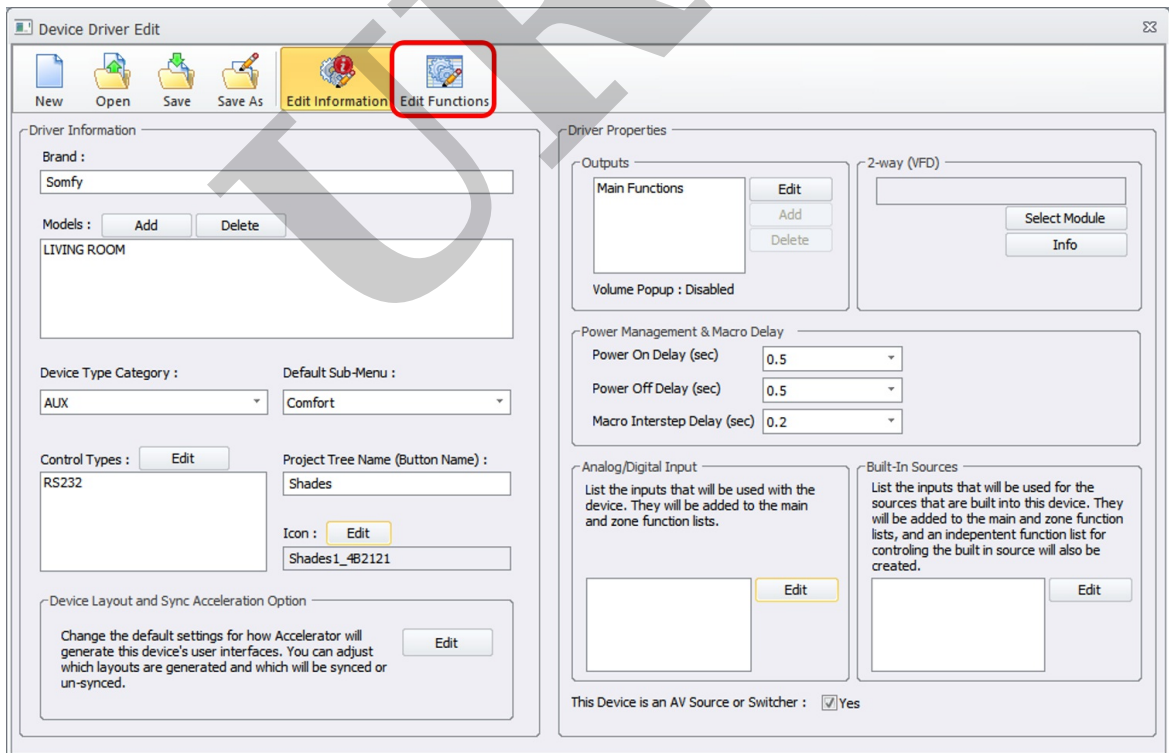1. Open **Accelerator,** go to **Step 4-Add Other Devices** and click **Create New Driver**

2. Change the **Category to AUX**, select **Somfy** for a brand, highlight **Somfy 1**, then click **Select This Device** and choose **General Device** when asked to select device type.
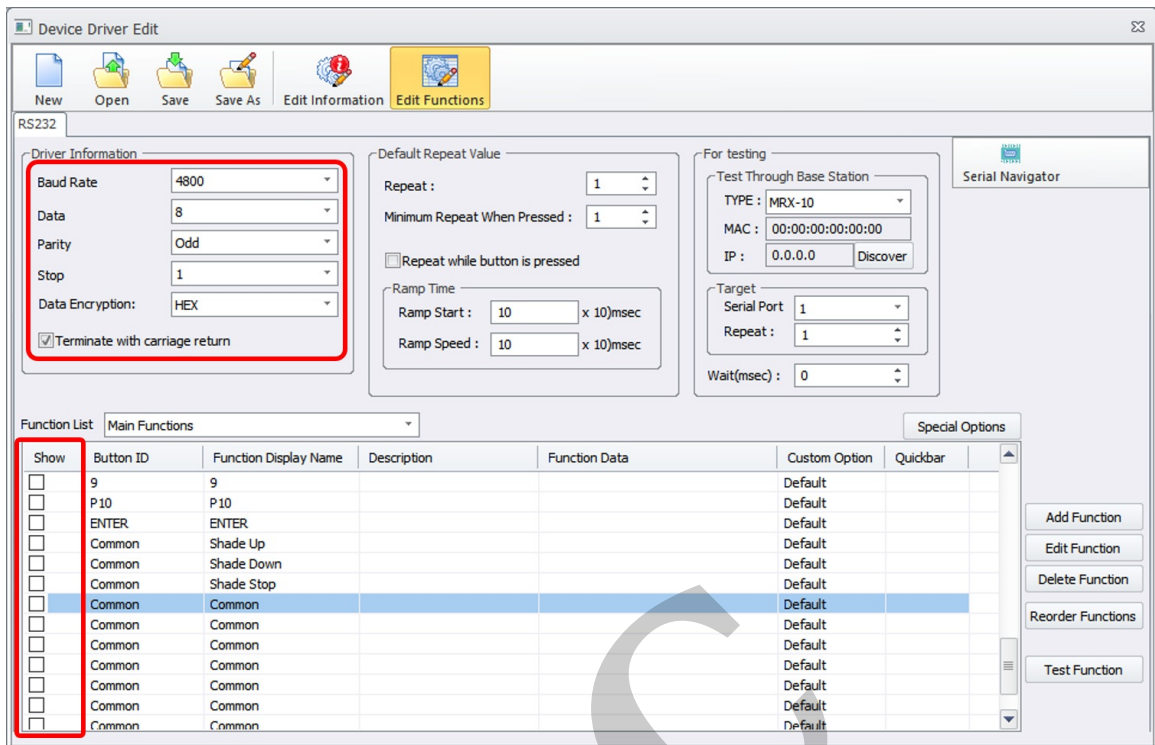

3. Edit the driver information as seen in the picture below. For**Models**, use the name of the room where the shade is mounted. Be sure to **edit the control type to RS232** and edit the **Icon** to include a picture.
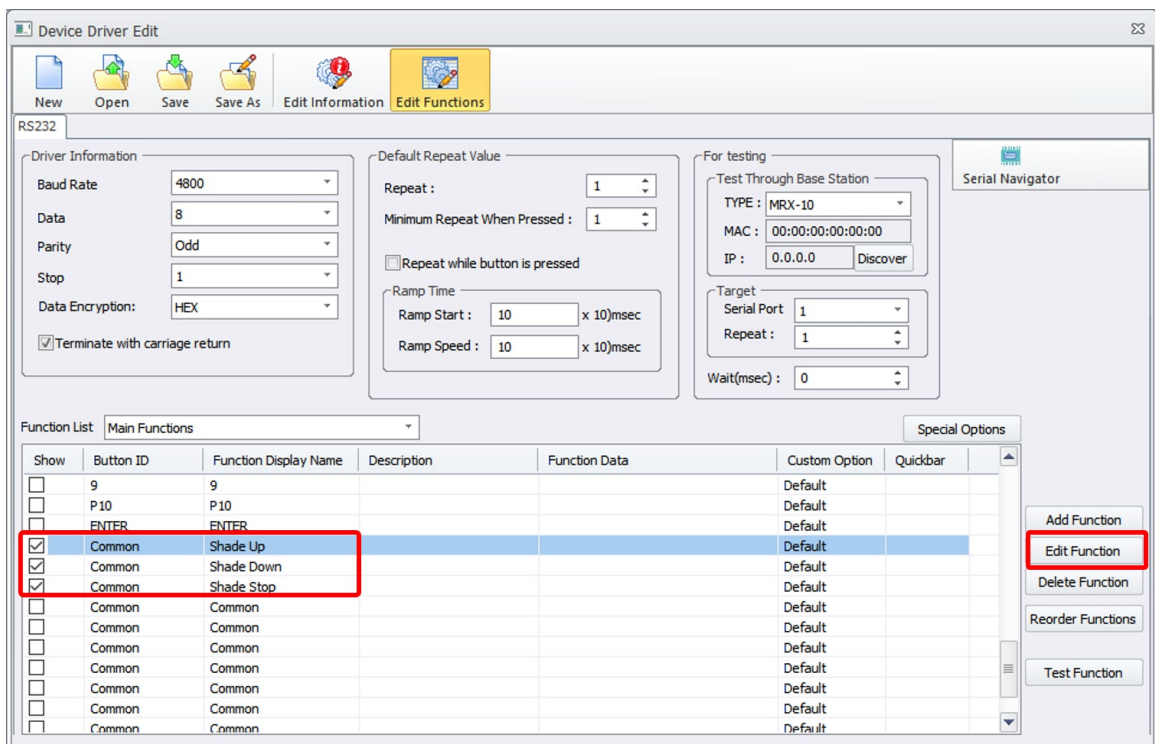
4. Next, click **Edit Functions**.

5. Edit the **Driver Information** to match the image below, and **deselect all of the functions** by clicking on **Show** at the top of the column, this will clear out all of the check marks population the boxes.

6. Scroll down to **Common** in the **Function List** and edit the **Function Display Name** field to create a button for each function you would like (example: Shade Up, Shade Down, etc.). Click the box under the **Show** field for each of the created buttons as seen in the image below. After creating and selecting your buttons, select one and click **Edit Function** to add the **HEX code** for the selected button.

7. Copy the **HEX code** from the **Somfy SDN String Calculator** and paste it in the **HEX Data** field. **IMPORTANT-You must add commas to the pasted code as seen in the image below!** Click **OK** after adding code.

8. Add the **edited HEX code** for each of the buttons you created, **being sure to add the commas.**

9. **Save the driver** then **import it into the Project Tree.**

10. Go to **Step 5 in Accelerator** and **assign the serial port number.**

11. Go to **Step 10 and Accelerate,** Go to **Step 12 and Accelerate.** Download and test.