

**Control4 Driver for
Somfy RTS System**

Control4 Drivers
for the
Somfy RTS System
V200

User's Guide

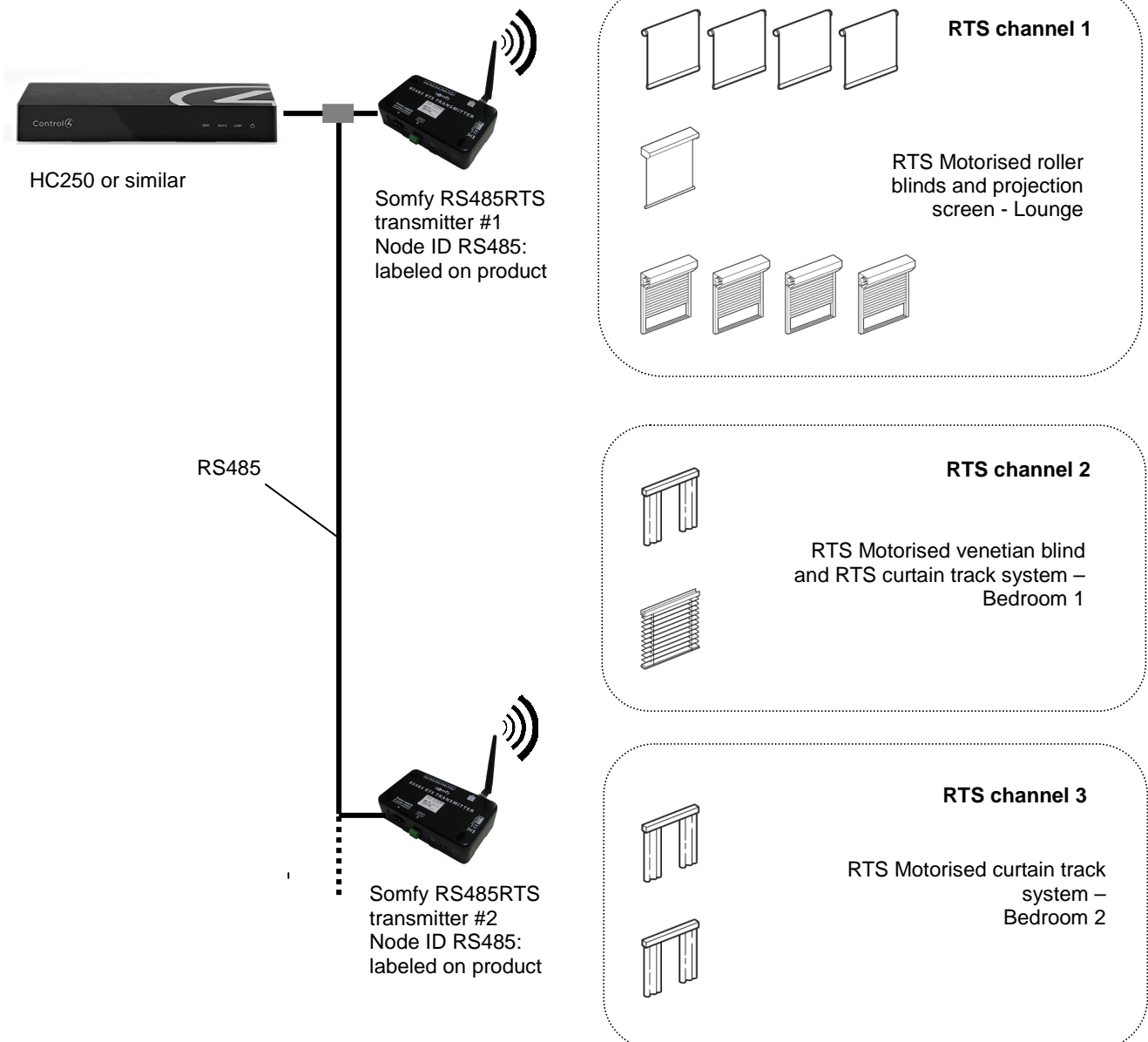


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Introduction

The Somfy RTS system consists of one or more Somfy RS485 RTS transmitters and a number of Somfy RTS motors and receivers. Each transmitter can control up to 16 groups of motors and receivers. The transmitter is connected to an RS232 port on the Control4 system via an RS232 to RS485 adapter. The transmitter then controls the receivers via a wireless link (RTS system from Somfy).

Example configuration



Connecting RTS Transmitters to the Control4 Controller

The RTS transmitter uses an RS485 interface, so an RS232-RS485 converter is required to interface with the serial port on the Control4 processors. The Hexin Era HXSP485B unit is one of the Somfy approved RS232 to RS485 converters.

This is readily available from www.era-converter.com



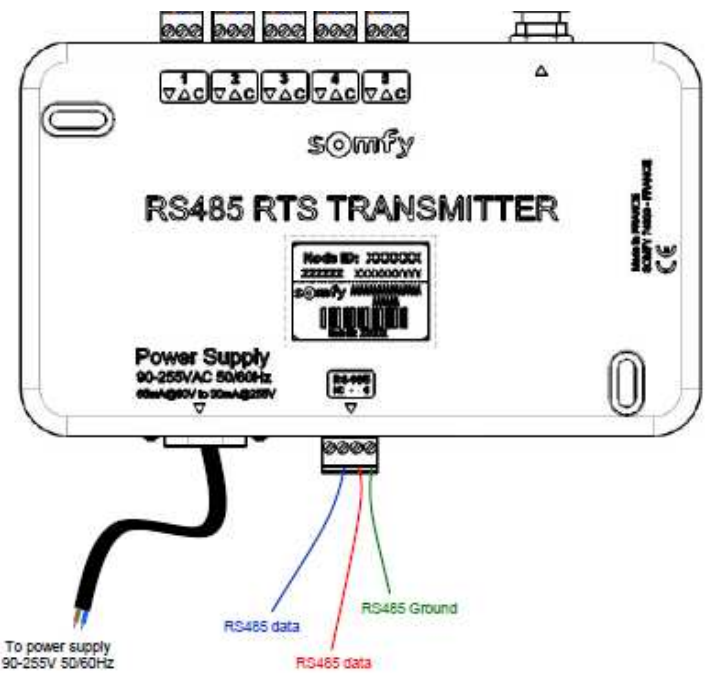
The 4-way data terminal block is used to connect to the RTS transmitter – the following connections must be used

Data+
Data-
GND

Additionally, it is important that this converter must be separately powered from a +5V power supply (use +V and GND connections on the data terminal block).

YOU MUST USE +5V TO POWER THE CONVERTER, OTHERWISE DAMAGE MAY OCCUR

Multiple RTS transmitter nodes can be connected in parallel.



Note that the serial port on an HC250 controller is presented on a mini-jack flying lead, to DB9 female – this is cross-wired. It is recommended that a null modem gender changer is used to convert this to a standard serial port.

Control4 Configuration

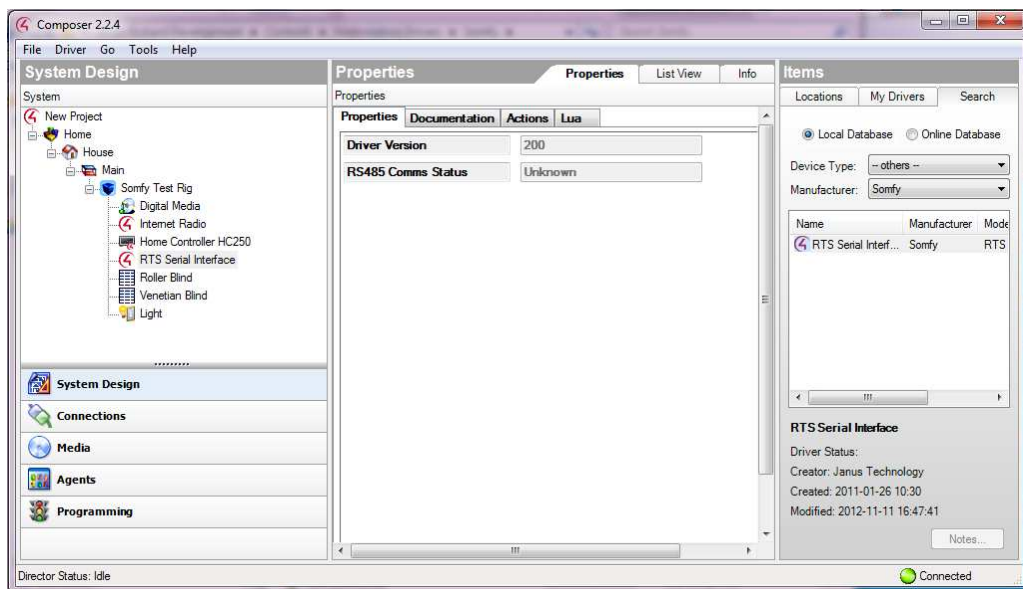
Add the transmitter(s) to your project

Copy the .c4i files from the zip package to:

- My Documents\Control4\Drivers (Windows XP)
- Documents\Control4\Drivers (Windows 7)

Open Composer

The transmitter driver can be found under Device Type: --others-- Manufacturer: Somfy. It will appear as an RTS Serial Interface as shown below. Click on it to install the driver. Install one copy of the driver per serial port used to communicate with the transmitter(s). Note that you can daisy-chain a number of transmitters together and communicate with them all via a single serial port. However if you choose to have transmitters connected to more than one serial port you will need one driver per port.



The properties of the driver show driver version.

Additionally the also show an RS485 Comms status. This takes the following values and can be used to help diagnose problems:-

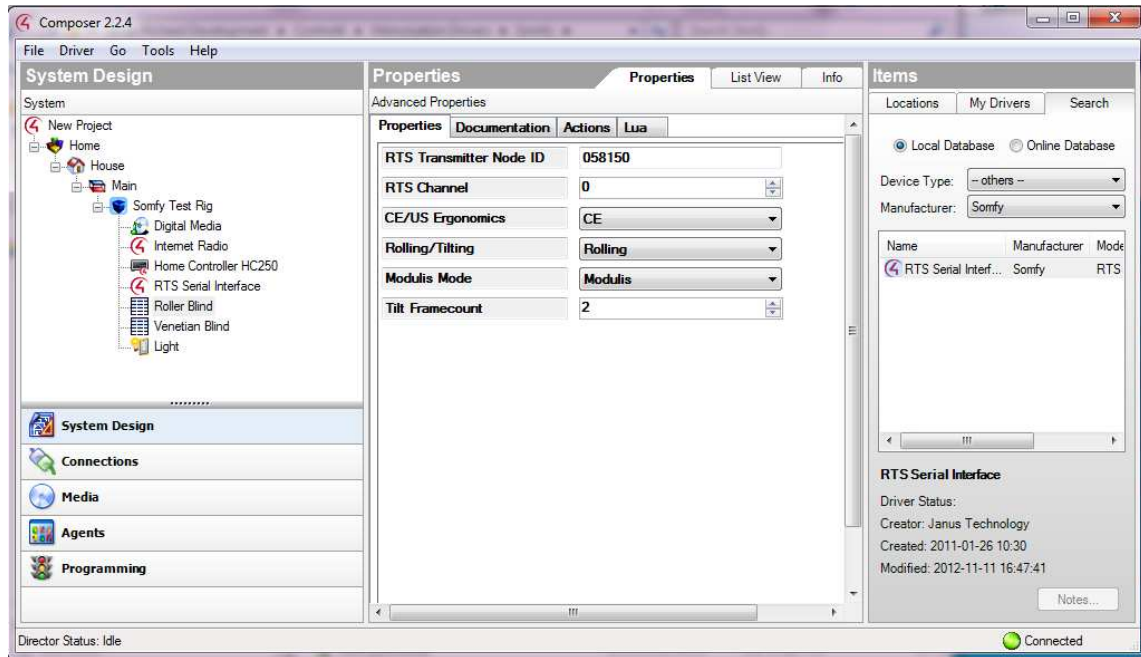
Unknown	Unknown comms state – driver not bound to serial port
Attempting Communication	Driver is bound to serial port and is trying to communicate with RTS transmitter, but hasn't yet received a response
OK	Driver is successfully communicating with RTS transmitter

Configure serial port Connection

Go to the Connections pane and choose the Control/AV sub-panel. Drag the Serial RS-232 input of the driver onto whichever RS-232 output on the controller has been connected to the transmitter(s).

Add the blinds to your project

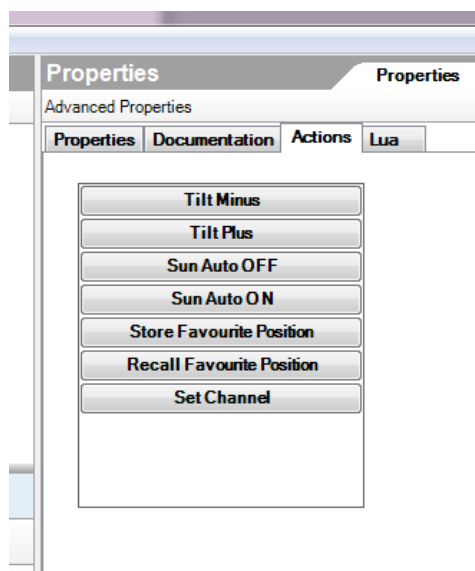
Return to the System Design pane. The blind driver can be found under **Device Type: Blinds Manufacturer: Somfy**. Click on it to install a copy of the driver. Install one copy per group of blinds that you are controlling. Note that this driver is configured to auto-bind to the serial interface driver. If you have added more than one serial interface driver to the project, you will need to check and possibly correct the binding between the blind drivers and the serial interface drivers.



Programming groups of blinds

For each set of blinds, you will need to configure the RTS transmitter node id and the RTS channel corresponding to that blind. These values are entered into the properties of the driver. See below for an example. **The RTS transmitter RS485 node id is printed on a label on the transmitter.** The RTS channel is programmed into the receiver.

If you have not yet programmed the channel number into the receiver, after configuring the properties you can do this from within Control4 as follows:



1. **Place the receiver in programming mode** (how you do this will vary according to the receiver). Ensure that only the blinds belonging to the same group that you wish to program are powered up. Consult the documentation for the receiver **or contact the Blind company who supplied the blinds for your project.**

2. On the actions page for the corresponding blinds driver, **press the "Set Channel" button.** The command to assign the channel will be sent to the receiver and you should see some form of acknowledgement (e.g. the blind will jog).

You can test that the blind has been configured correctly using the other actions on the actions page (Move Up, Move Down, and Move Stop).

Configure Blind Properties

For each group of blinds you will need to configure the following parameters correctly.

Properties	Documentation	Actions	Lua
RTS Transmitter Node ID	058150		
RTS Channel	0		
CE/US Ergonomics	CE		
Rolling/Tilting	Rolling		
Modulis Mode	Modulis		
Tilt Framecount	2		

CE/US Ergonomics	Set to CE
Rolling / Tilting	Rolling for Roller blinds (default). Tilting for Venetian blinds
Modulis mode	Set according to blind specification. Modulis is default.
Tilt Framecount	Sets tilt sensitivity from 2 (small steps) to 13 (large steps)

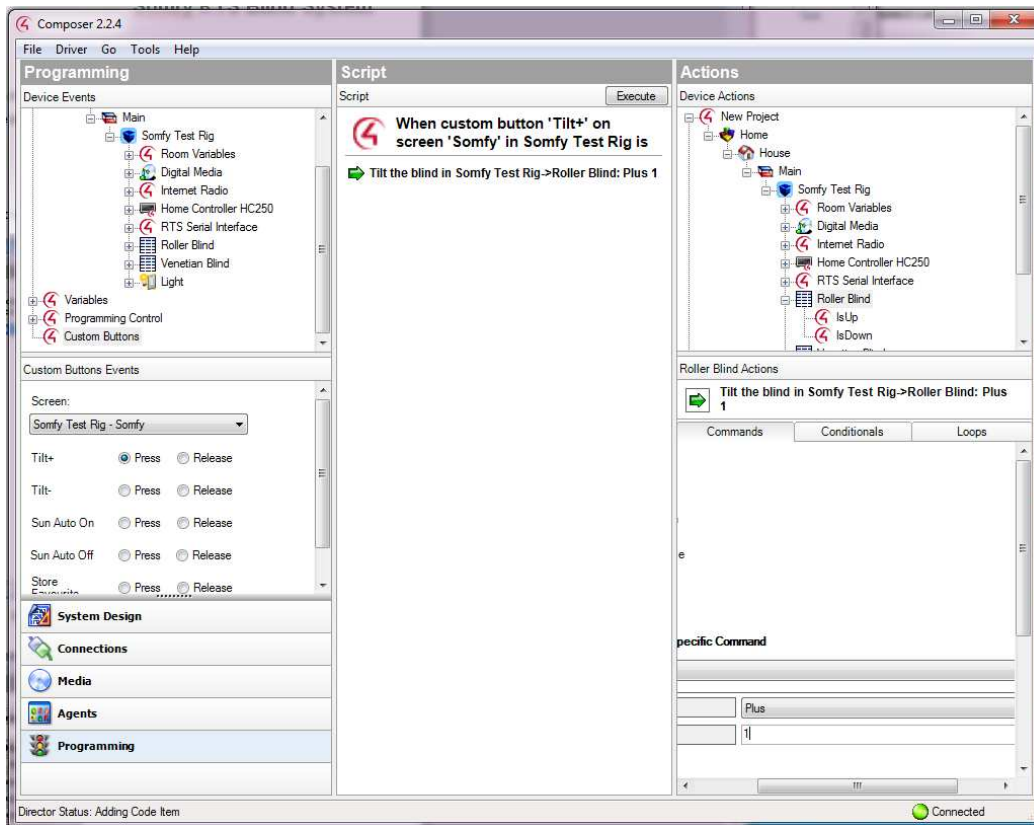
Advanced Blind Features

The standard Control4 Blind Proxy allows basic movement control (Up, Down, Stop).

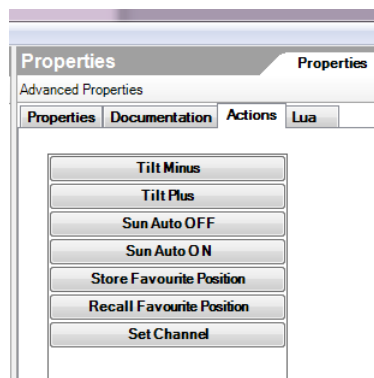
The driver has in-built additional support for advanced features, including

- Auto Sun-Protection (On / Off)
- Storing current position as a favourite position
- Recalling Favourite position
- Tilt adjustment

These features aren't available on the standard GUI, but can be access within Composer and added as Custom Buttons into the project configuration.

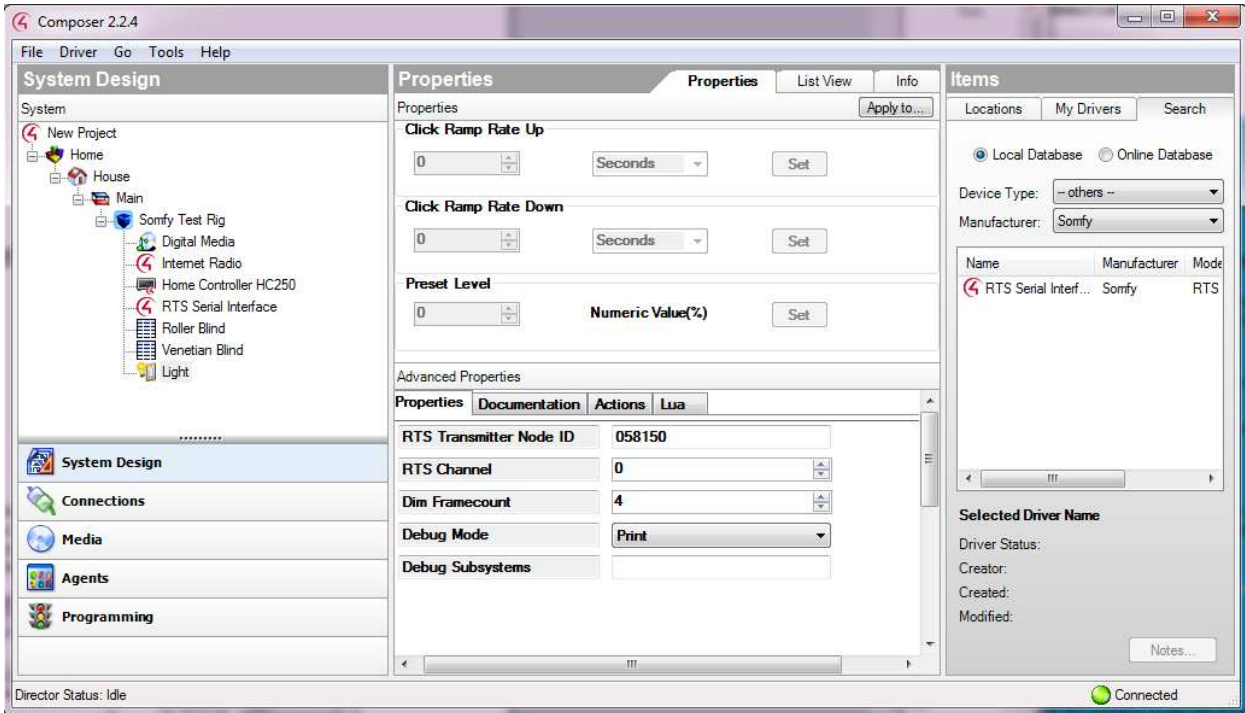


Additionally these features are available on the ACTIONS tab of the Blind driver for test / diagnostic purposes within Composer.



Add the RTS Lights to your project

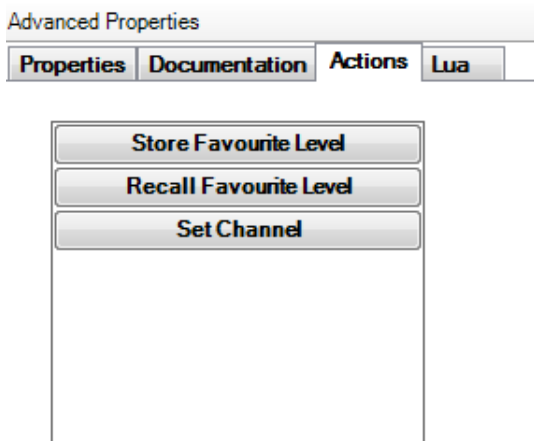
Return to the System Design pane. The light driver can be found under **Device Type: Lights Manufacturer: Somfy**. Click on it to install a copy of driver. Install one copy per light that you are controlling. Note that this driver is configured to auto-bind to the serial interface driver. If you have added more than one serial interface driver to the project, you will need to check and possibly correct the binding between the light driver and the serial interface drivers.



Programming RTS Light receivers

For each light, you will need to configure the RTS transmitter node id and the RTS channel corresponding to that light. These values are entered into the properties of the driver. See below for an example. **The RTS transmitter RS485 node id is printed on a label on the transmitter.** The RTS channel is programmed into the RTS light receiver.

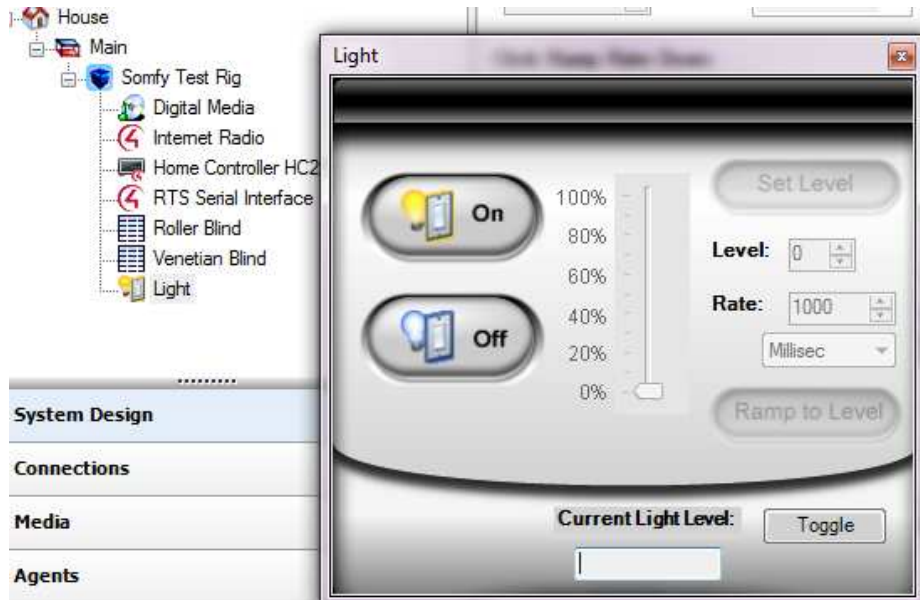
If you have not yet programmed the channel number into the receiver, after configuring the properties you can do this from within Control4 as follows:



Place the receiver in programming mode. **Ensure that only the light device that you wish to program is powered up.** Press the programming button on the RTS remote handset – the light will flash to indicate it is in programming mode.

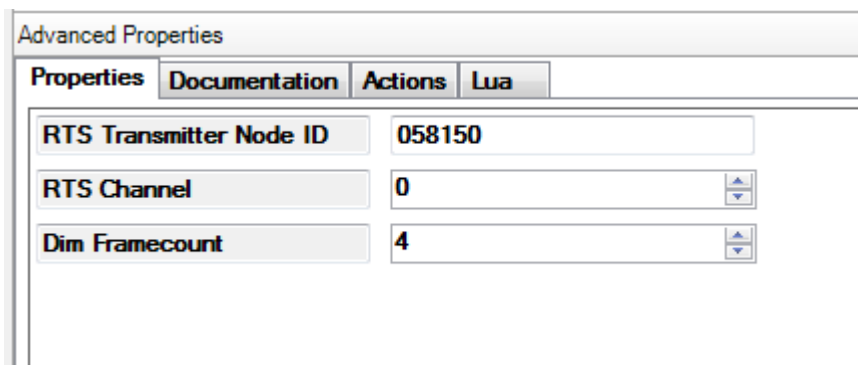
On the actions page for the corresponding light driver, press the "Set Channel" button. The command to assign the channel will be send to the receiver and the light will flash to indicate it has accepted the programming.

You can test that the light has been configured correctly from within Composer. Double-click on the light in System Design to bring up the test dialog.



Configure Light Properties

For each light you will need to configure the following parameters correctly.



Dim Framecount: Sets Dim sensitivity from 1 (small steps) to 16 (large steps)