Belkin WeMo Two Way Module

Installation and Usage Guide

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Contents

Overview

Introducing the Belkin WeMo Switch (Model Number F7C027) and Insight Switch (Model Number F7C029). It has US/UK/AU-NZ plug types and is extremely affordable.

This WiFi based power outlet supports upto 10amps and can be easily integrated into the URC home automation system using the Chowmain Belkin WeMo driver.

The Insight switch can be utilised for device health monitoring and also for automatic selection of manually controlled AV devices like Playstation 4's, Xbox One's and Wii U's.

Features

• Auto discovery of the WeMo switch abd Insight devices on your local network
• Self healing if the network topology changes or additional devices are added
• Direct on/off control of each device.
• Power usage and current status displayed on the remote interface
• On/Off feedback from each device.
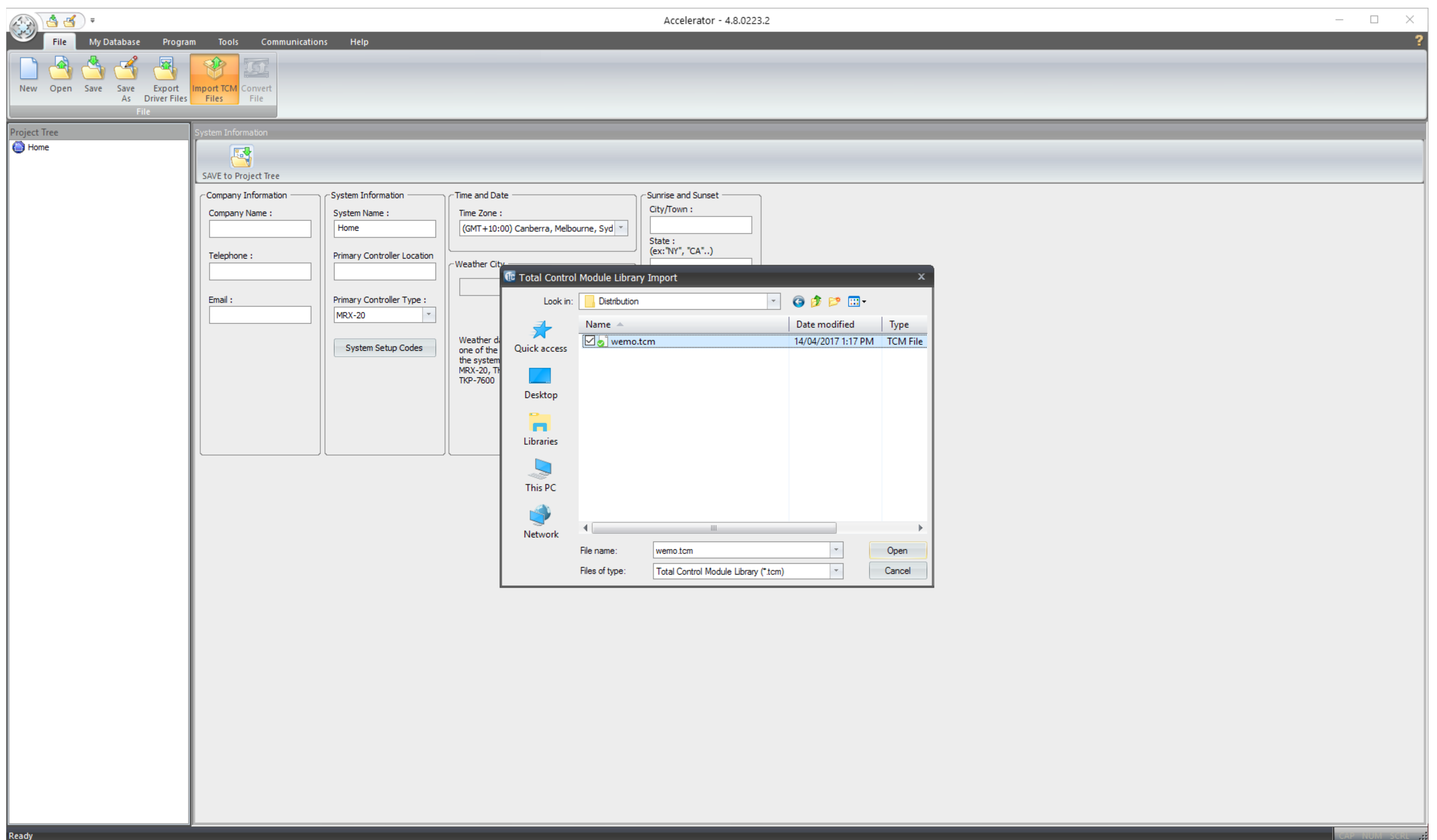• Standby feedback from the Wemo Insight

Changelog

Version 0.1 - 07-04-2017
 - Beta test release

Installation

Import the TCM in to accelerator

The zip file that included this documentation has the TCM file you will need to import.

Go to the file menu, select import TCM Files and load the provided file.

(for more information check http://www.urccontrolroom.com/tc/software/tools/tcm/start)

Add the Wemo module to Accelerator

This module is designed to work with all of your Wemo devices using a single module so you will only need to add it to one room.

Go to Step 4. Add Other Devices and Add Selected Modules.

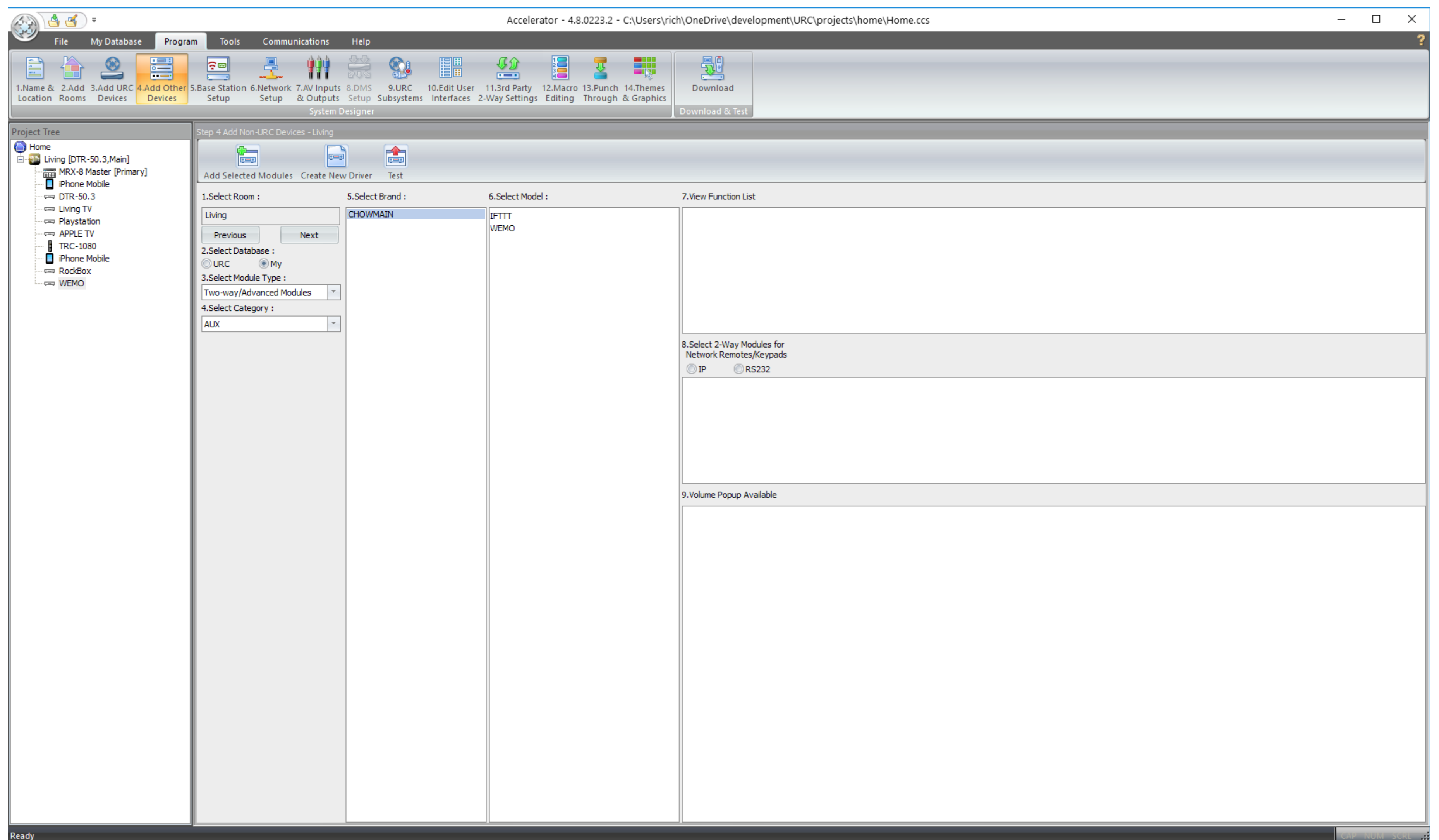Step 1 - select the room for the module

Step 2 - Select My

Step 3 - Select Two-Way/Advanced Modules

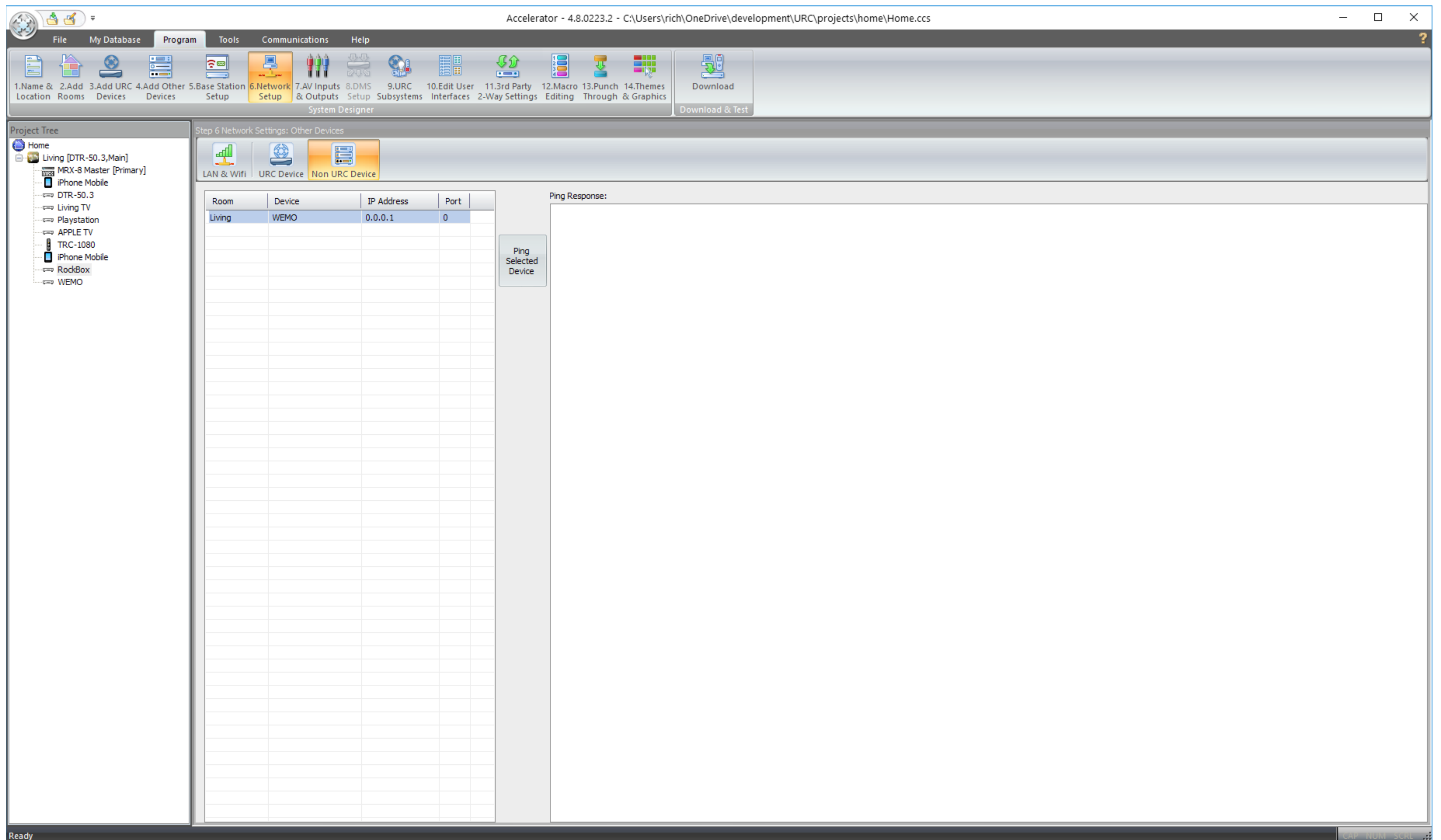Step 4 - Select AUX

Step 5 - Select CHOWMAIN

Step 6 - Select Wemo

Add the network setting for the Wemo module

The Wemo modules does not use the settings from Accelerator for its network setup so there is no need to provide representative IP addresses. Its best to simply use a fake address in the for 0.0.0.x (where x is the next free number, for example 0.0.0.1 if you have no other modules using this addressing scheme).
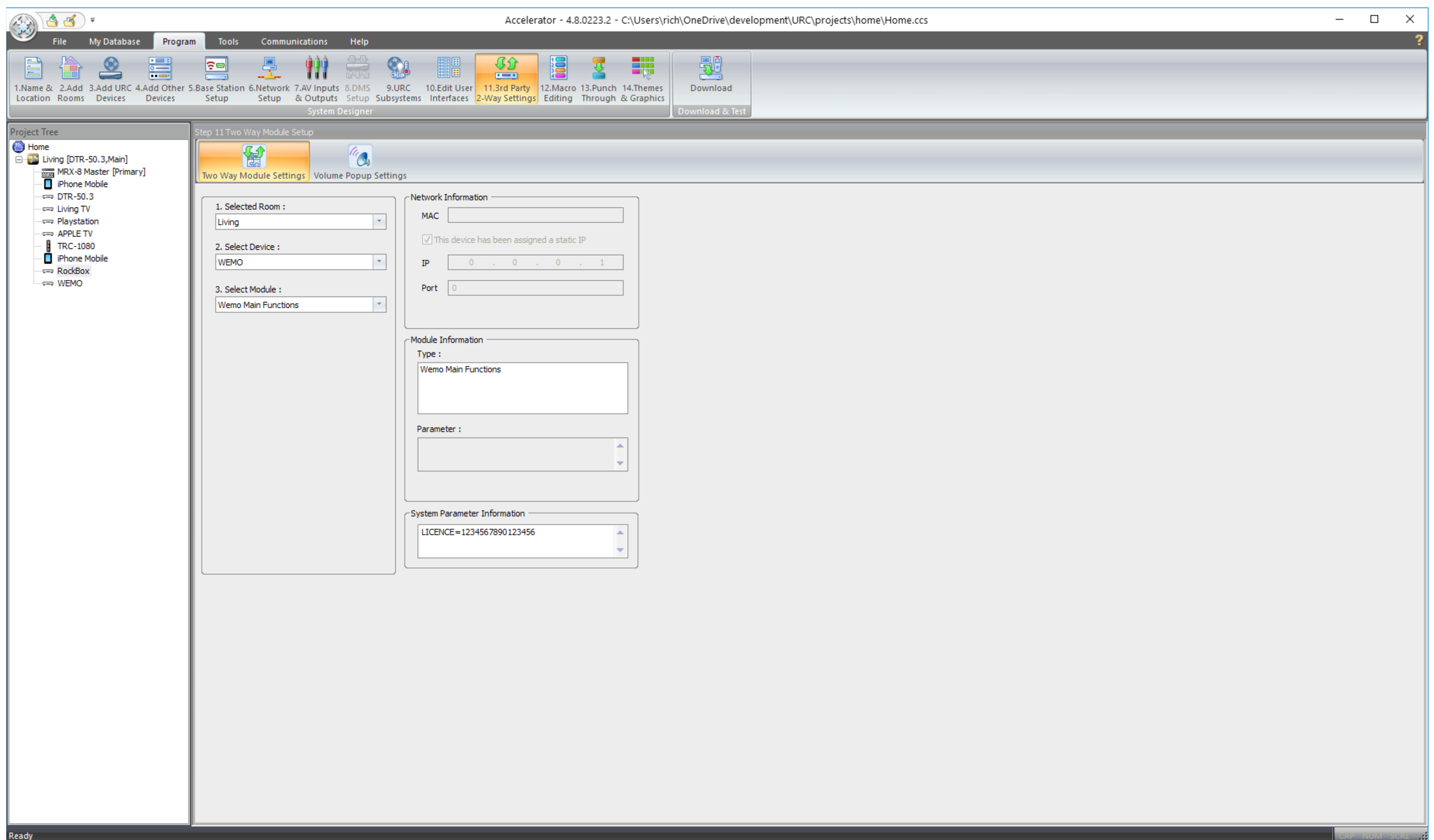

The above show the network setup, We are using 0.0.0.1 in this example.

Add the licence code

The Wemo module needs a licence to work. To add the licence go to Step 11 in Accelerator and select the Two Way Module Settings option. In the system parameter Information box enter your licence code.

You will now need to setup the accounts required to use this module and enter those details once you have them in this parameters field.
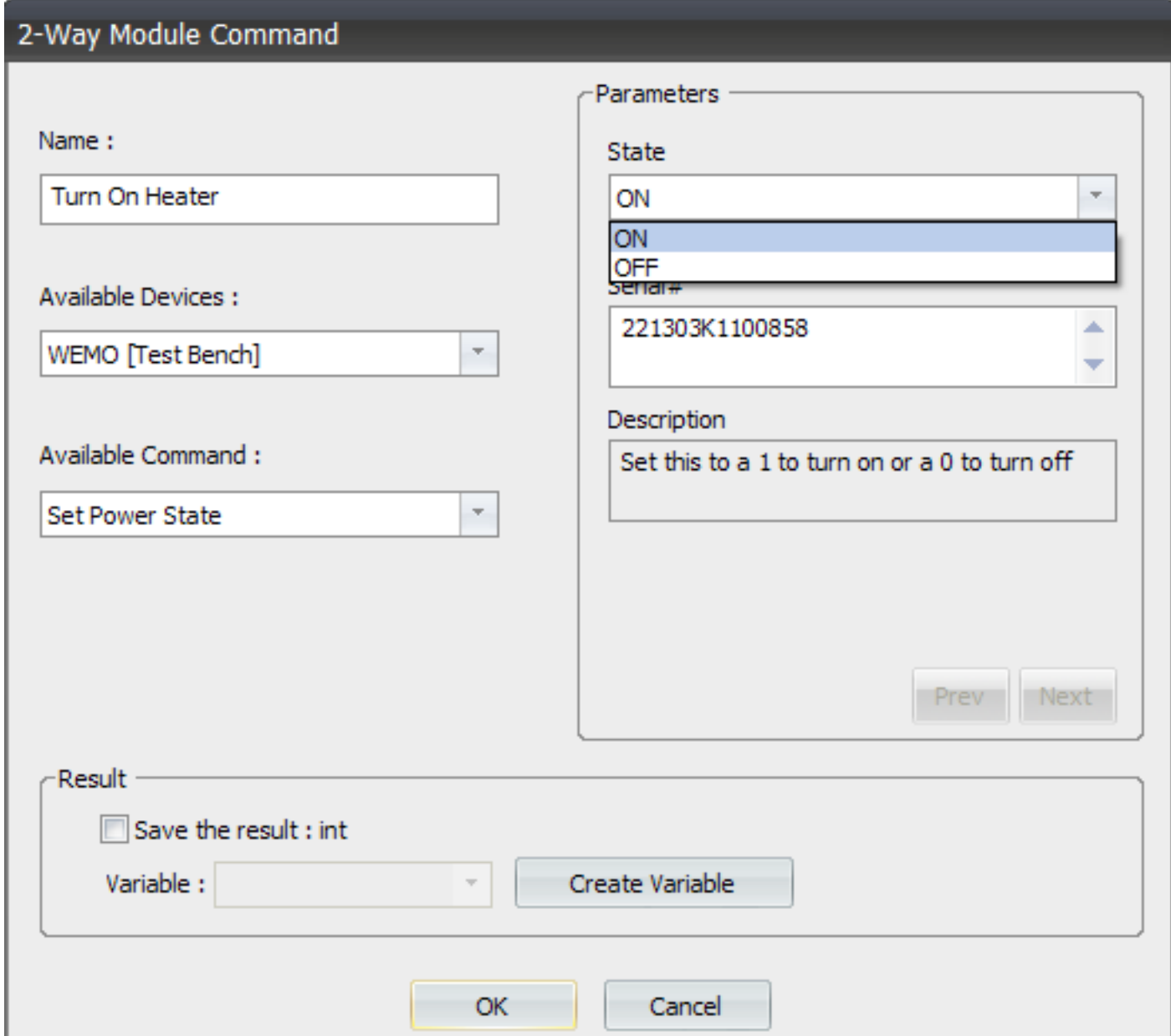
Two Way Commands (controlling the Wemo)

To control the Wemo device directly from URC you can add a Two Way command.

First give the command a name then select Wemo under Available Devices. There is only one command, Set Power state, so make sure that is showing.

You can choose to turn the device ON or OFF by selecting from the State drop down menu.

Lastly a serial number needs to be added for the device you wish to control. The serial number can be found on the back of the Wemo device as shown in the picture to the right.

There is no feedback from this command so the Result section can be ignored.
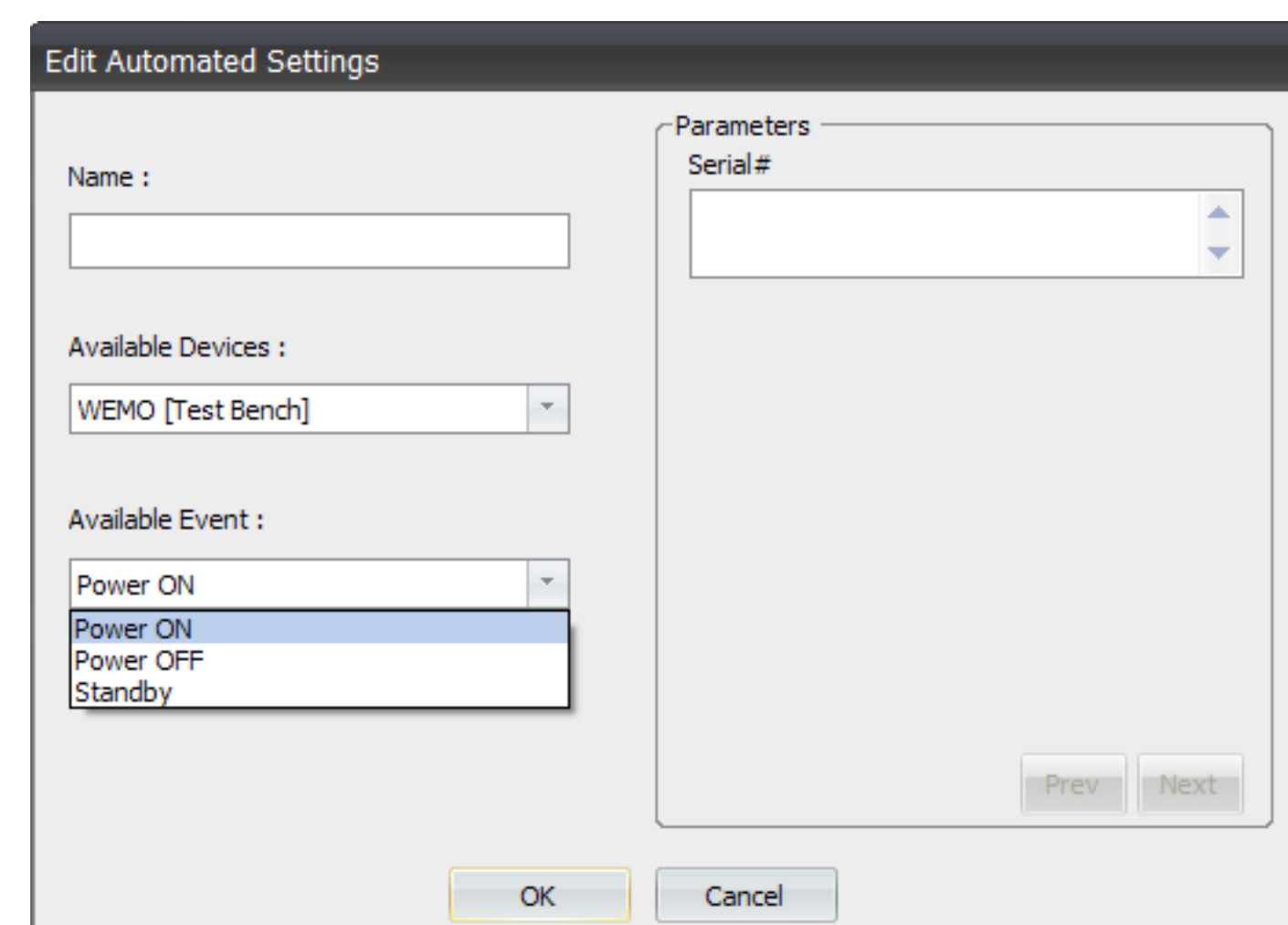
Device Events (responding to the Wemo)

The module provides three device events. The Wemo Switch provides power on and off and the Insight a standby event in addition to on and off.

To setup a macro to respond to the Wemo changing state you will need add an Automation Macro. Give the macro a name and select Wemo in the Available Device pull down menu.

From available events you can choose Power ON, Power OFF or Standby. Note that standby only works for the Wemo Insight devices.
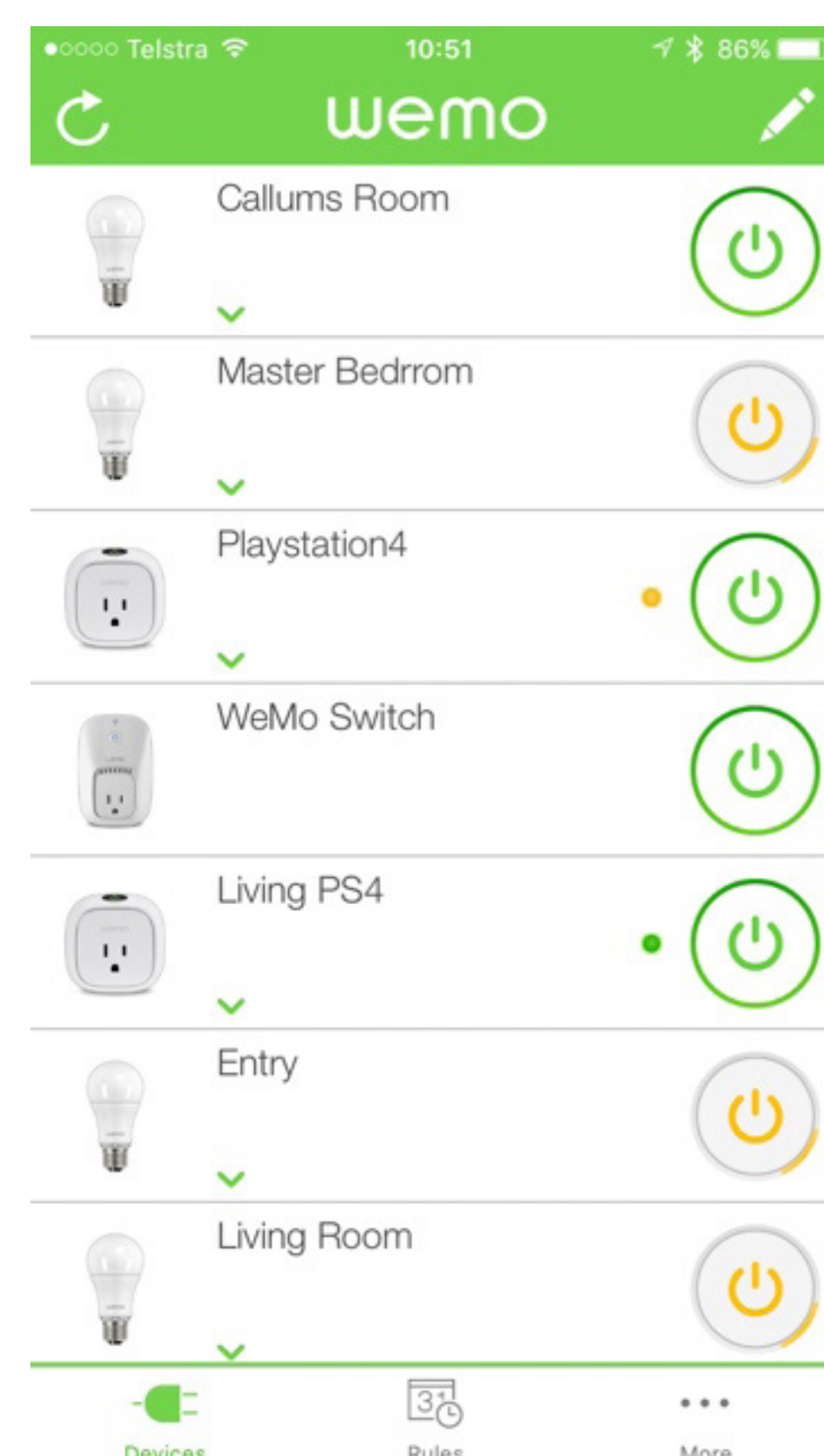
Lastly you will need to add the serial number of the device you want to listen too. The serial number is located on the rear of the Wemo device (as shown to the right).

The current mode of the device can be monitored in the WeMo app. The indicator is the dot next ot the power switch. The off state is indicated by a grey dot, the on state by a green dot and the standby state (on for an Insight device) by an orange dot.

The standby mode is maintiained by the WeMo Insight itself so you may have to experiment with your device to check what modes it triggers.

All the testing was done with a Playstation 4, which idles at approxiamtely 3W and uses approximately 85W when in use, and a bar fridge which idles down to a few watts when the heat pump turns off.

Power ON

Triggered when the device changes to its power on state. For the WeMo switch this is straight forward, if you turn the unit on via a remote or from the switch located on the front of the device this event will trigger.

For the Wemo Insight the on state will only trigger when the power used goes above a certain threshold. If its below this threshold the unit will instead be in it's standby mode.

This event will trigger if the unit changes state from the button being pressed on the front, a command sent from URC (as detailed above) of any other type of automation that might be controlling the Wemo, 'If This Then That' for example.

Power OFF

Triggered when the device enters its power off state. For all supported device this is when the unit is switched off either from the remote or the switch on the front of the unit.

Standby

Triggered when a WeMo Insight enters its standby mode. In this mode the unit is still powered on but its drawing minimal current. An example would be a fridge entering its idle state.