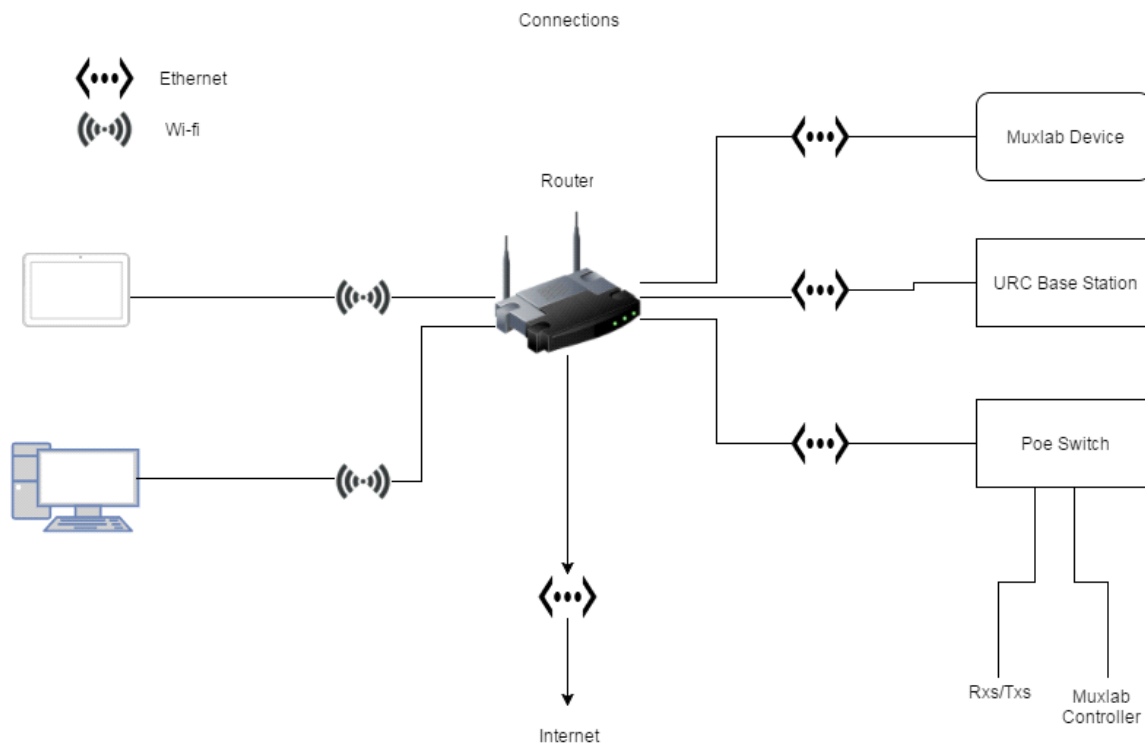**Muxlab / URC Driver setup**

This guide will take you through the necessary steps to install and setup the Muxlab URC Drivers in an Accelerator project. For this setup, the following knowledge and items are required:

- A basic understanding of the Accelerator application (or rather an understanding of their interface and the structure of the folders where they store files).
- The driver files (zip file).
- A URC base station.
- A tablet (Android or iOS).
- Knowledge of the Local Network.
- These devices must be in the same IP group (same network segment)as you currently have setup .
- The following network setup.

To install the drivers and setup your project, please unzip the Muxlab URC Driver file that you downloaded from the Muxlab website and follow these steps.

1) Name and Location
-Fill in the company information section.
-Enter a name for the system, the primary location of the Controller, and the Model of the main controller. In this guide, the MRX-8 will be used as an example.
-Save the Project Tree. The application will take you to the next step.

2) Rooms

-In this step, you can add more rooms as required. By default, the application will add the MRX-8 controller selected in the first step in the default room.

-(Optional) If the desired room is not found in the list, a room with a custom name can be added.

- Once this step is complete, press on the step 3 button.
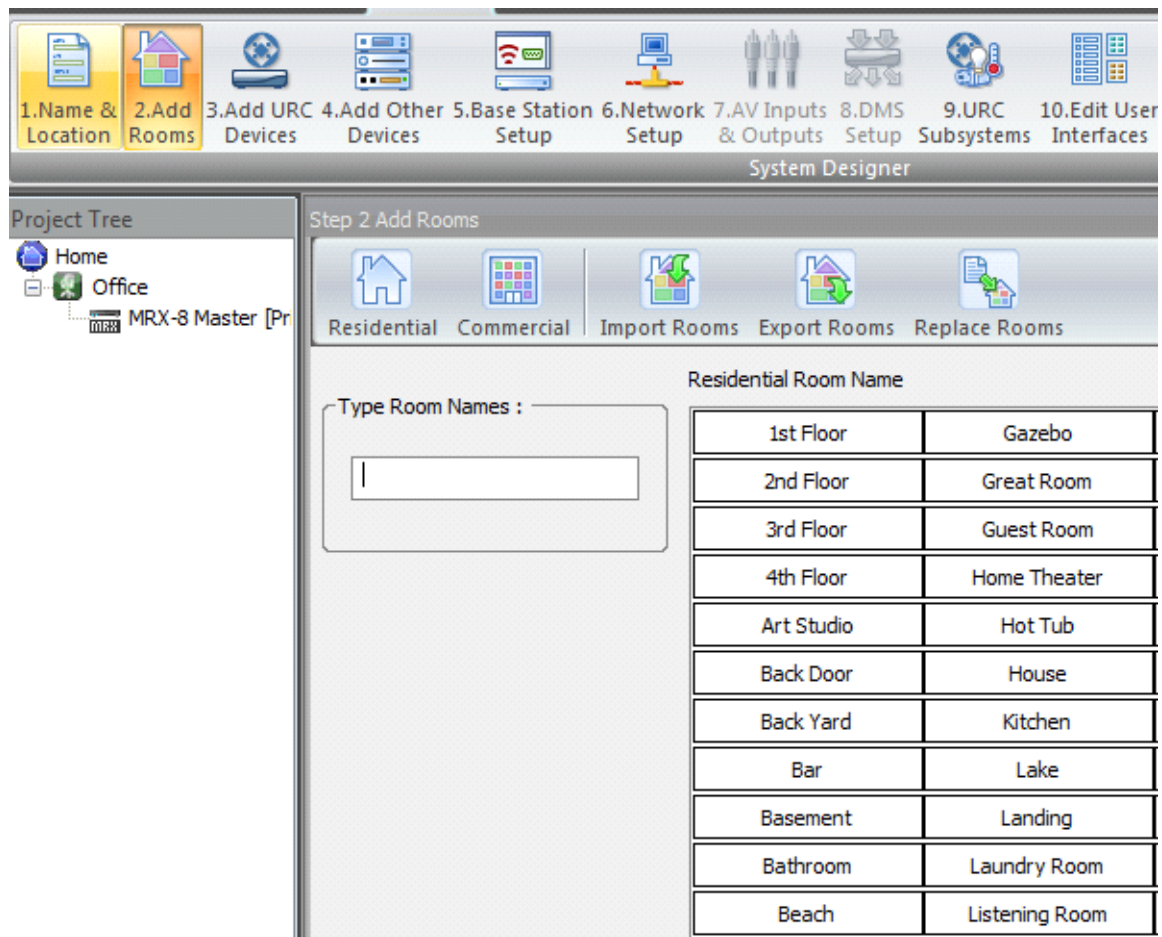
3) URC Devices

-Select the desired room in the "Current Room" selector and add additional URC devices as needed.

- (Optional)If you have additional controllers, this is where they can be added. Add then as needed by double clicking on the appropriate controller found in the "Base Stations" section. From the pop-up, select the desired name for this controller and leave the rest of the properties untouched.

-To add an iPad for example, double-click the IPad Mobile button in the Remotes/Keypads section to add it to the room. From the pop-up, select the desired name for this device and leave the rest of the properties untouched.

-Add any additional devices as required, by following the same steps as above.

- Click on the "Add Other Devices" button to move to the next step.
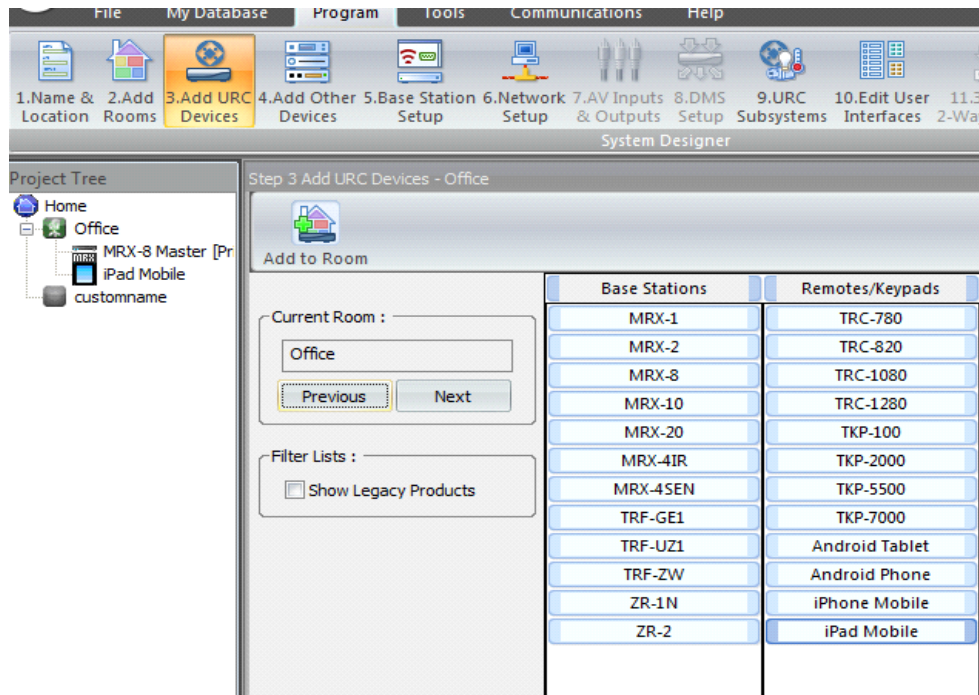
4)Add Other Devices
-Add the wanted driver in the Application Database by doing the following:
a)
For the Muxlab Network Controller :

The first file can be found here ...\MuxlabController-500811\Output\BStation\tes4.vfd
-Copy and paste this file in the following folder.
C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\TwoWay

Note: The above and below paths should exist after installing Accelerator.

The second file is located in MuxlabController-500811\Output\Clients\Tablet\CONTROLLERGUI.VFD.
-Copy and paste these files in the following folders.
1)C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\Clients\iPadV2\TwoWay
2)C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\Clients\IPad\TwoWay
3)C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\Clients\Android
Tablet\TwoWay

For the Muxlab Matrices :
The first file can be found here ...\MuxlabMatrices\Output\BStation\XYMATRIX.vfd
-Copy and paste this file in the following folder.
C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\TwoWay

The second file is located in MuxlabMatrices\Output\Clients\Tablet\XYMATRIXGUI.VFD.
-Copy and paste these files in the following folders.
1)C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\Clients\iPadV2\TwoWay

2)C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\Clients\IPad\TwoWay
3)C:\Program Files (x86)\Universal Remote Control, Inc\URC Accelerator\Clients\Android Tablet\TwoWay

b)
- Import the TCM file that is provided with this driver. In the accelerator application, click on **File** -> **Import TCM Files**
- Navigate to the location of the TCM file and Open the file.
- Confirm the import action by clicking on **Import**

c)
- Save the Accelerator project and close the application.   This ensures that Accelerator works with the latest version of the files on the next startup of the Accelerator application.

d)
- Open Accelerator and open the Accelerator project again.
- Select **My Database** -> **Manage My database.**   This action will open the folder which contains the custom drivers for the application. Copy and paste the CSD file that was provided with the Muxlab URC Driver into this folder.
- Select **My Database** -> **Edit Driver.** This will open the folder which contains the custom driver that was added in the above step.
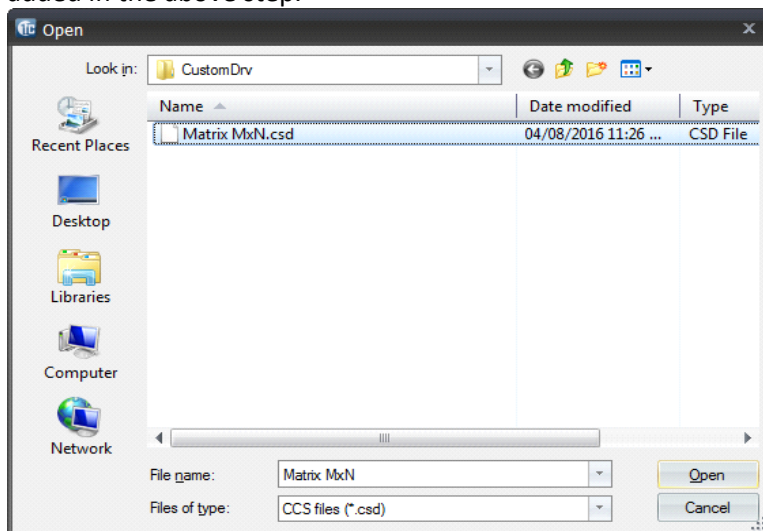

- Opening this driver will open the following window.
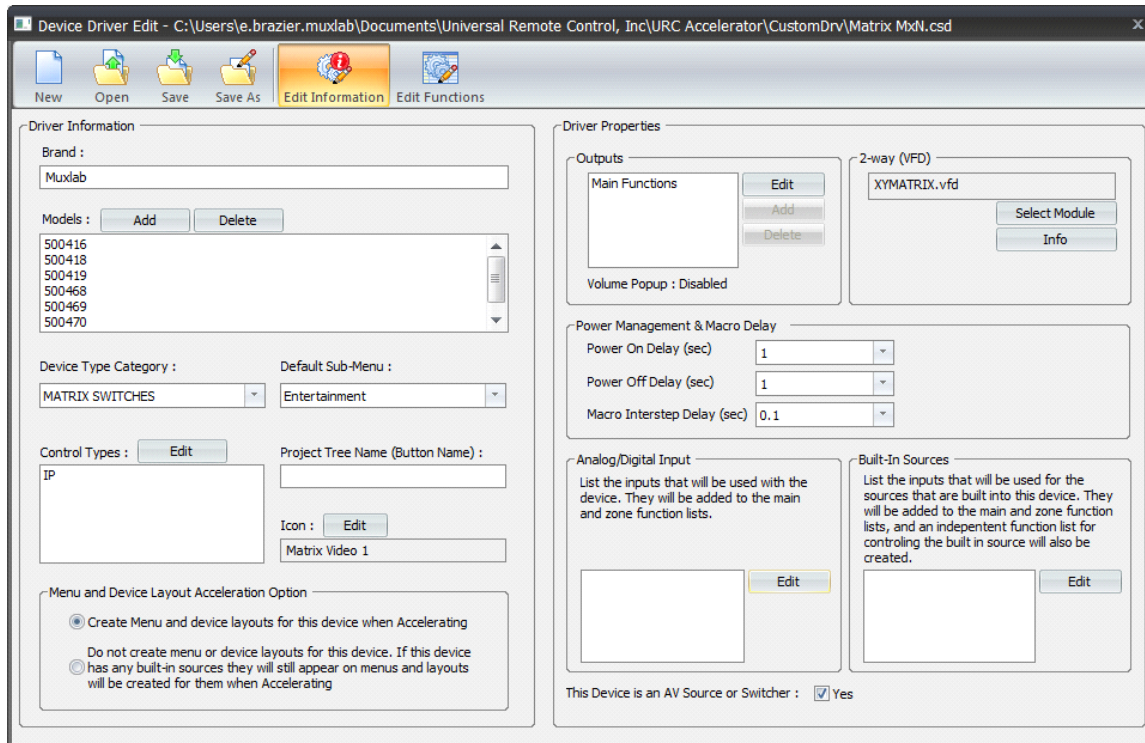
- Click on the select module in the upper-right corner and select the module file.
  Note: For the controller : select Tes4.vfd and for the matrices : select the XYMatrices.vfd

- Select the appropriate module, click **OK** and then **Apply.**
- Save the modification and then close the window.

The driver has now been added to the database of the Accelerator application.
-Select the room you wish to add the Muxlab URC Driver to.
-Select **My -> IP Database ->   Matrix Switches -> Brand (in this case "Muxlab")-> The desired model.**
-Select RS232 in the   section : 8 Select 2-Way Modules for Network Remotes/Keypads
-Add the driver to the project tree by clicking on **Add Selected Modules**
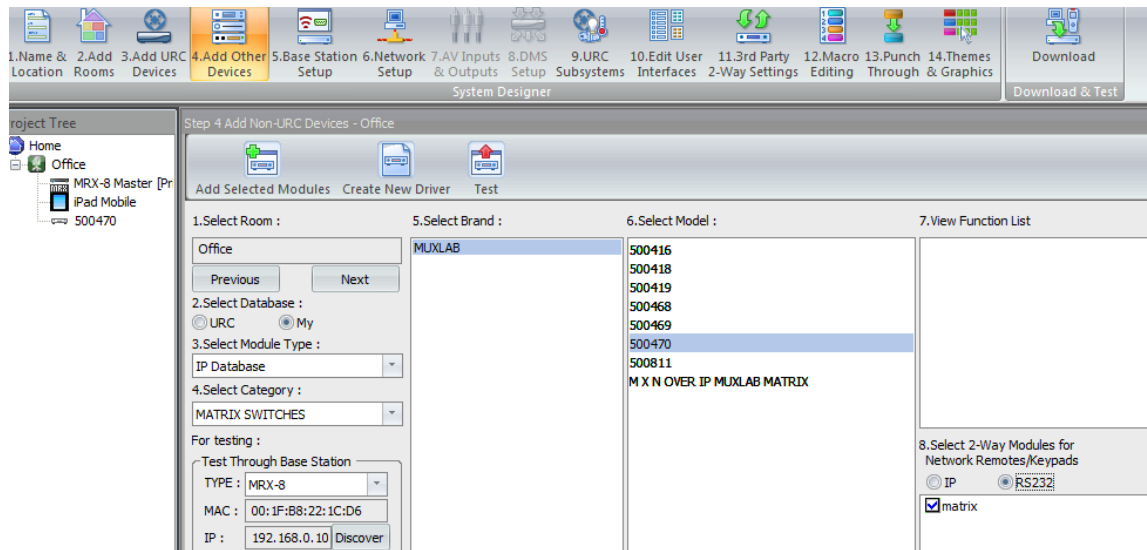
-**Important**, if the changes made in the previous steps were completed correctly, then at the screen position #8 (as shown above) there should be a "checked" box next to the word Matrix or Controller (depending on the driver selected earlier).
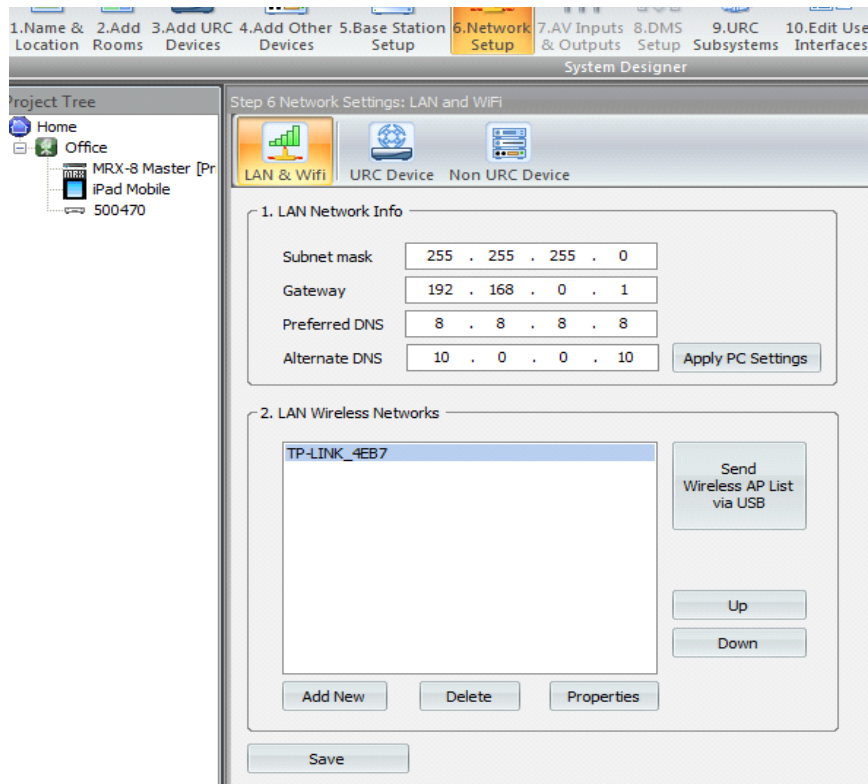-Add any additional drivers required to the room as necessary.
- Repeat this process for any other room in the project tree.

5) Network Setup
- In the LAN network section, fill in the necessary information, which must match your actual local network parameters/setup.

As an example:

- In the Lan Wireless Networks section, add your router(s). This can be done by selecting **Add New.**
This action will open a window in which the parameters of the router may be entered.
-After filling the information, click **OK**
-Finish this portion of the setup by clicking on **Save**

-In the URC Device tab, the connection parameters of the Base station needs to be set.
This can be done by selecting the **URC Device** tab.
-Select **Refresh,** the application will scan the network for the URC devices. Select any unassigned base
stations, then select the appropriate counterpart on the left list, and then click on **Assign**.
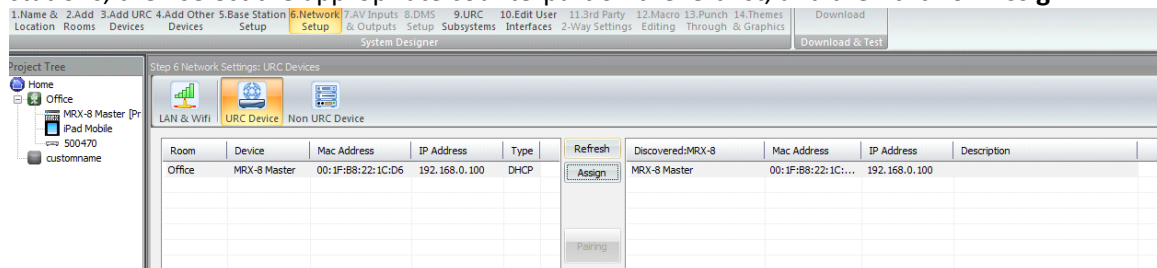
-You can modify the IP address to of the Base Station to either Static or DHCP, by double-clicking on this
field (under the heading "Type"). A small pop-up window will appear allowing for a selection between a
Static or DHCP address mode.

Under the **Non-URC Device** tab, the parameters of the Muxlab devices need to be set. This can be done by selecting the **Non-URC Device** tab, and then filling in the IP address and the port information by double-clicking on them.
(Recommended: Ping the Muxlab device to ensure that the device is on the same network segment as the URC Controller, and that it is reachable. You can do so by selecting it and then clicking on Ping Selected Device. If the IP address parameter is incorrect or the device is not on the same local network, then this test will fail.

6) Edit User Interface
-In the **Generate Menus and Devices** tab, select **Accelerate** and then **OK.** This step will generate the interface used on the handheld device.

*7) 3rd-Party Two Way Settings.*
-In the on-screen menu step 11 of the Accelerator application, you can set the WiFi parameters of the Muxlab device.
-Select the room, the device, and the module.
For the Controller : the module name is Controller and for the Matrices: the module name is Matrix.
-In the serial information section, select the appropriate base-station and Serial Port.
-Ensure that the serial informations match the RS232 specifications of the Matrices
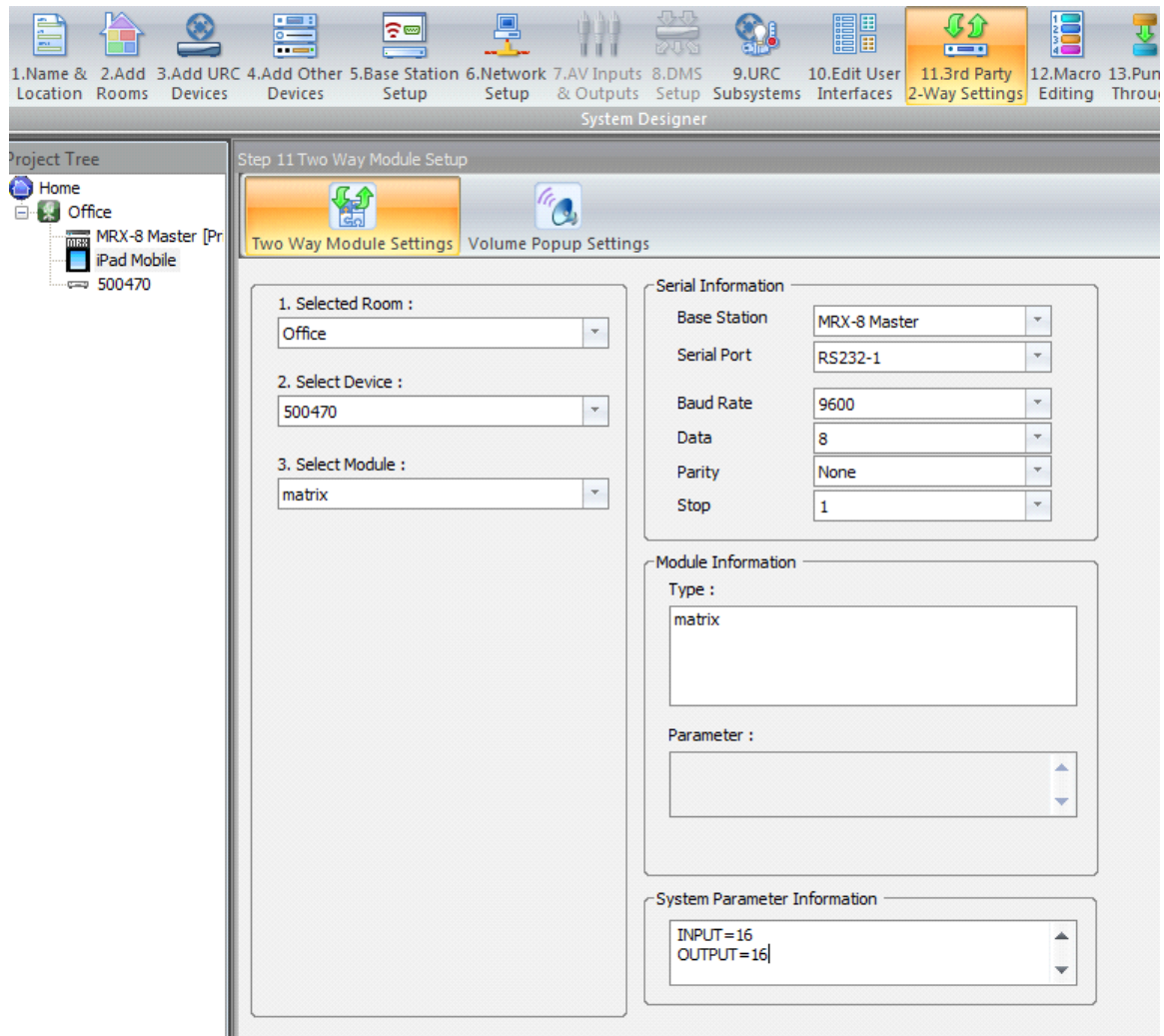
-The system parameters are where you define the parameters of the Muxlab device.
For the Muxlab Network Controller:

USERNAME=admin

PASSWORD=admin

IPADDRESS=192.168.x.x

TARGETID=1

NUMRX=10 (please enter the actual number of Muxlab devices)

Note: The above entries are examples, and may differ with your actual setup.

Explanation:
-**Username** and **Password** are the credentials used to login on the web Interface of the Muxlab Controller.
- **IPAddress :** This is the IP address of the controller.
- **Target ID :** The Target ID represents a setup or arrangement of MuxLab configured devices that you

wish to control. More than one Target ID may exist at any given time. The Target ID may be found on the web Interface of the Muxlab controller. Make sure you select the correct Target ID to control.
- numrx: numrx is the highest Port ID number of the setup that is to be controlled. The Port IDs are configured on the web interface of the MuxLab Controller application, and are actually cross reference identifiers for the Muxlab device Mac Addresses.

For the Muxlab Matrices :

USERNAME=admin

PASSWORD=admin

IPADDRESS=192.168.x.x

INPUT=16 (please enter the actual number of input ports)

OUTPUT=16 (please enter the actual number of output ports)

Note: The above entries are examples, and may differ with your actual setup.

Explanation:
- **Username** and **Password** are the credentials used to login on the web Interface of the Muxlab Matrix.
- IPAddress : IP address of the Matrix.
- Input : Number of inputs on the Matrix
**- Output** : Number of outputs on the Matrix

(Recommended) Copy the parameters above as is and adjust the parameters as needed. After that, paste the paragraph directly in the field. In doing so, the structure and syntax of the paragraph will remain intact and be valid.

8) Macro Editing
This step is not necessary for the Muxlab URC Drivers, but is necessary for the remainder of the project (as required by URC). In the **Macro Editing** tab, click on **Accelerate** and then on **Ok**

9) Conclusion
-The last step is to download the project on the URC Base Station and test it. To do so, click on the **Download and test** tab and select the appropriate base station. Click on **Download to Selected Device**
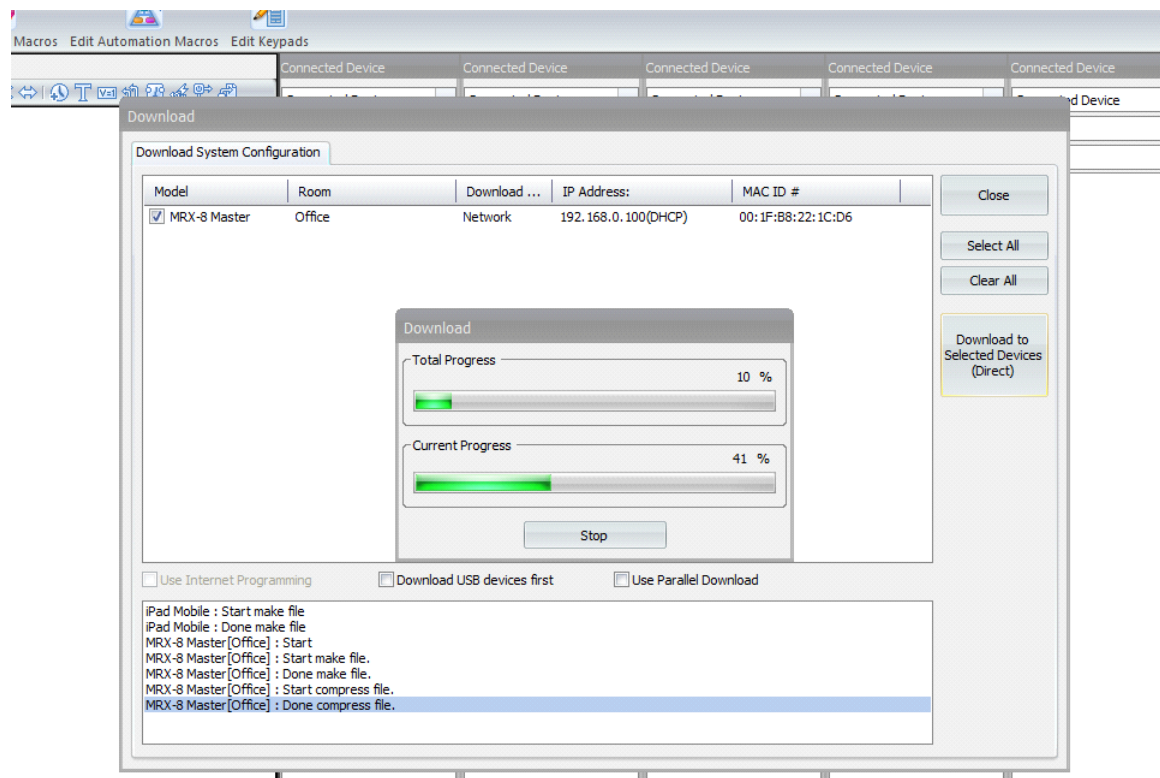
This concludes this guide. After following these steps, the project and the driver will be downloaded on the URC base station and the hand-held device will be able to control the Muxlab Over IP Devices (Transmitters and Receivers).