Vanco EVO-IP URC Driver

Release Notes

Current Version: 1.0.1.17

Introduction

This driver has been designed to provide two-way control of the Vanco EVO-IP devices via TCP/IP. The following features are supported:

- Save Preset
- Recall Preset
- Switch Multiple Outputs
- Create Video Wall
- Switch Video Wall
- Toggle Video Wall
- Delete Video Wall
- Factory Reset Transmitter
- Factory Reset Receiver
- HDMI Toggle Mute Transmitter
- HDMI Toggle Mute Receiver
- Reboot Receiver
- Reboot Transmitter
- Reboot All Devices

This driver has been written and tested using the following Vanco EVO-IP device types:

- EVOIPCTL1
- EVOIPRX1
- EVOIPTX1

Vanco EVO-IP Configuration

It is recommended that the Vanco EVO-IP system be installed, configured and tested by a suitably qualified engineer, according to Vanco's documentation, prior to integration with this driver.

Driver Installation

A single driver file is included in the release package:

Driver File Name	Description
`Vanco_EvoIP_v[VERSION_NUMBER].tcm2`	This file contains driver files to control all devices.

The current version included is `Vanco_EvoIP_v1.0.1.16.tcm2`.

Adding to Accelerator

Open your existing TC2 System file in URC Accelerator and then import the `Vanco_EvoIP_v[VERSION_NUMBER].tcm2` file:

- Choose `File -> Import TCM File`
- In the Total Control Module Library Import window, locate the `Vanco_EvoIP_v[VERSION_NUMBER].tcm2` file and click **Open**.
- From the **Import Total Control Module window that appears**, choose **Import**.

Once the driver has been imported, close URC Accelerator and then reopen it to ensure that the driver has been picked up properly by the driver database.

Adding the Driver

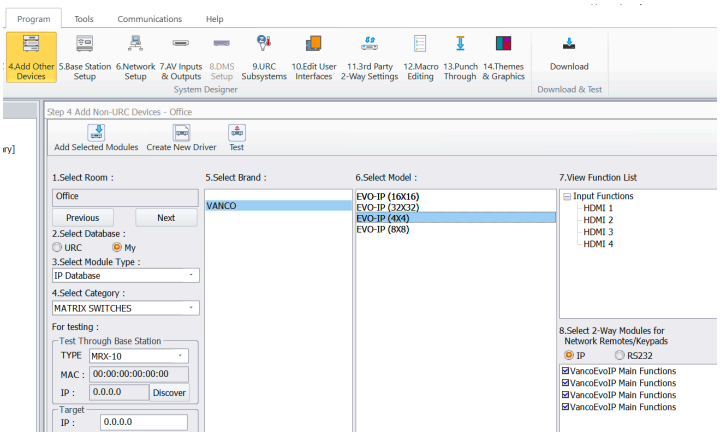
There are fours variations of the driver that can be installed:

- EVO-IP (4x4)
- EVO-IP (8x8)
- EVO-IP (16x16)
- EVO-IP (32x32)

These drivers are the same except that the natively support a different number of input and output devices in Accelerator. If you are not making use of the built-in functionality to automatically switch between inputs and outputs then it does not matter which version that you install.

To add the driver:

- Select a room to place to the driver
  - It doesn't really matter where this driver goes but it would make sense to locate it in the project where you have it physically in the installation.
- Choose **Program -> 4. Add Other Devices**.
- Ensure **Select Database** is set to **My**.
- Ensure that **Select Module Type** is set to **IP Database**.
- Set Select Category to **MATRIX SWITCHES**.
- Choose **Vanco** from the **Select Brand** list.
- From the **Select Model** choose **EVO-IP (YxY)**.
- Click **Add Selected Modules** to add the device to the room.



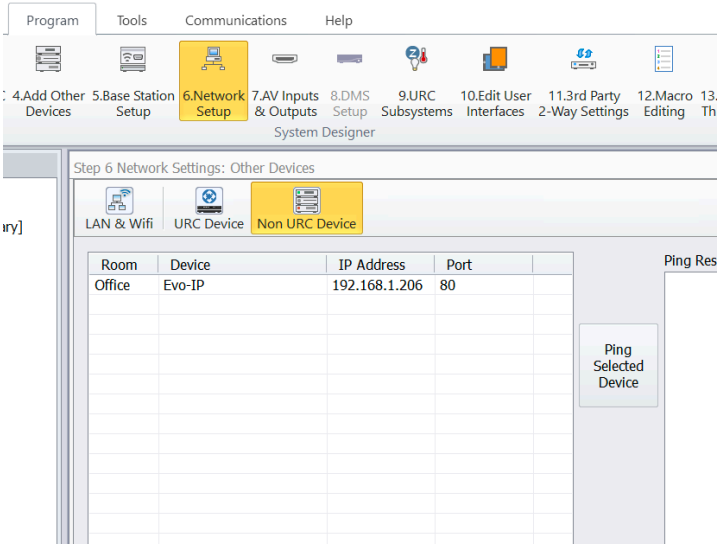
Configuring the Driver

The driver must be configured to properly support your devices.

IP Address

The IP Address of the EVO-IP must be provided to the Core driver.

- Choose **Program -> 6. Network Setup.**
- Select **Non URC Device** tab.
- For each instance of the driver, provide the correct **IP address** in the table.
    - Note that the port should be set automatically but for reference the correct port is **80**



Configure Inputs and Outputs

The driver can automatically switch between inputs and outputs if configured correctly.

Please ensure that you have installed the driver with the required number of inputs and outputs. The following variations are available:

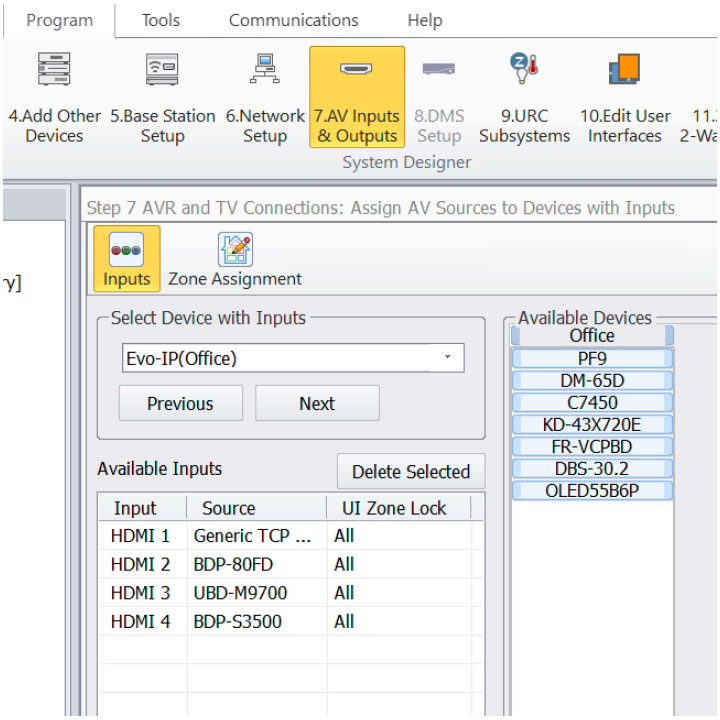
- EVO-IP (4x4)
- EVO-IP (8x8)
- EVO-IP (16x16)

- EVO-IP (32x32)

Choose **Program -> 7. AV Inputs and Outputs** to configure the inputs and outputs for the matrix.

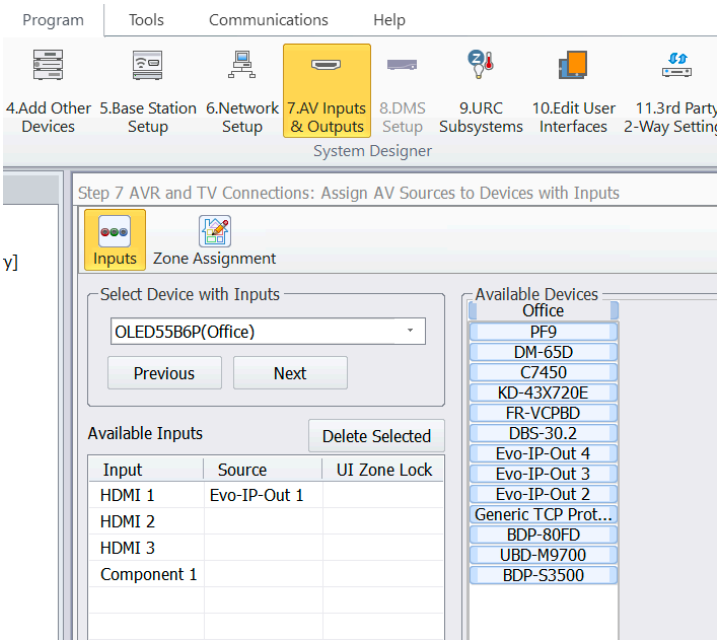
To configure the **inputs**:

- Select the **Inputs** tab.
- Choose **EVO-IP** from the **Select Device with Inputs** drop-down menu
- From the list of **Available Devices** drag each device you wish to configure as an input to the correct HDMI Input.



To configure the **outputs**

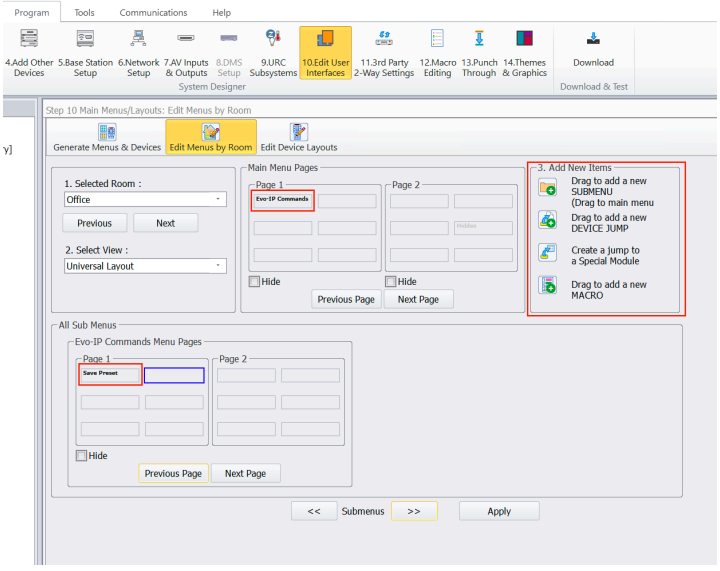
- Select the **Inputs** tab.
- Choose the device you wish to provide the **EVO-IP** output to as an input from the **Select Device with Inputs** drop-down menu
- From the list of **Available Devices** drag the correct EVO-IP output to the selected device HDMI input.



User Interface

There is no built in user interface provided for this driver. However, you can configure buttons with attached macros that can be used to control the various functions of the driver:

- Choose **Program -> 10. Edit User Interfaces**
- Select the **Edit Menus by Room** tab
- Add a new sub menu to the main menu by dragging the option from the **3. Add New Items** panel into the **Main Menu** panel for the room where you wish this menu to appear
- You can double click on the name **Empty** to rename to something more appropriate
- In the sub menu section you can then drag the **new macro** option from the **3. Add New Items** panel into the sub-menu panel to add a new button

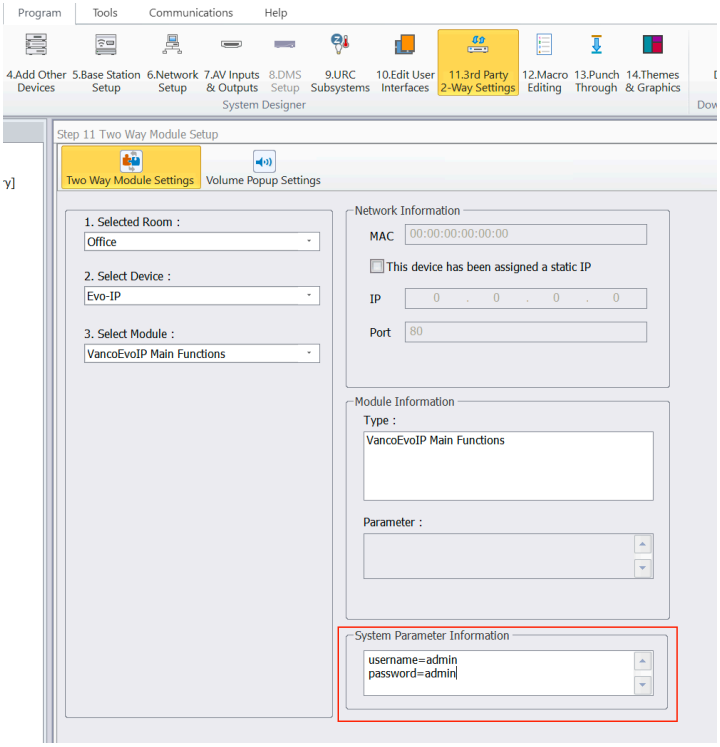


Once you have added all of the buttons you require you can assign macros to them - please see the next section for further details.

Settings

You must provide the **username** and **password** for the EVO-IP device to the module.

To do this choose **Program -> 11. 3rd Party 2-Way Settings** and select the room that the EVO-IP module is in from **Selected Room** and then the device from the **Selected Device** drop-down menu.



Finally, enter the username and password into the **System Parameter Information** field in the following format:

```
username=<username>
password=<password>
```

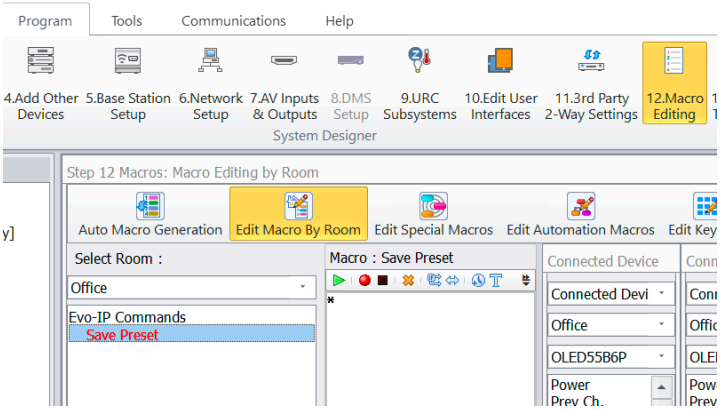
e.g.

```
username=admin
password=admin
```

Macros

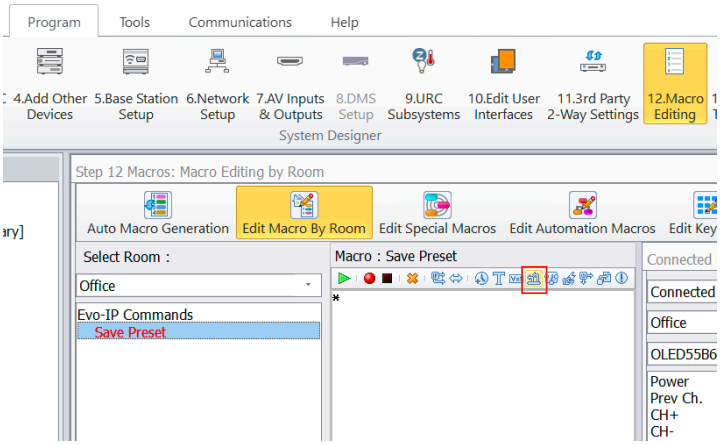
Ensure that system macros are generated for each instance of the driver by configuring **Program -> 12. Macro Editing** appropriately for your system.

You can view a list of user interface buttons that can be assigned macros by selecting the **Edit Macro By Room** tab and selecting the appropriate room from the drop down menu:

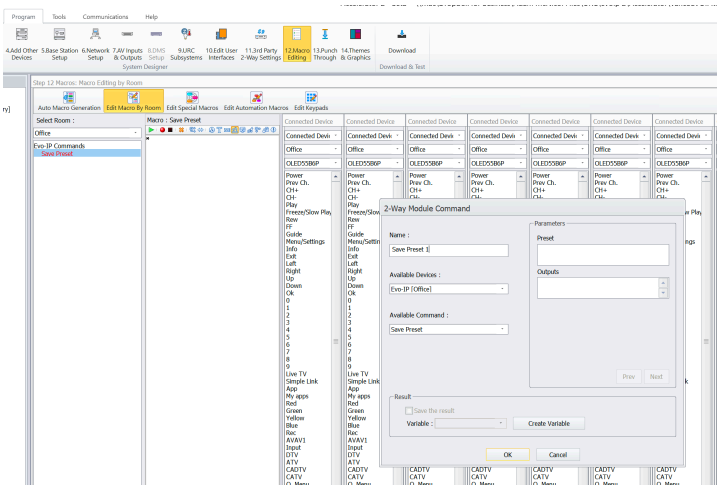


Buttons without actions assigned to them will be shown in **red**.

To add a command to an existing macro select the **query** button from the toolbar under **Program -> 12. Macro Editing**:

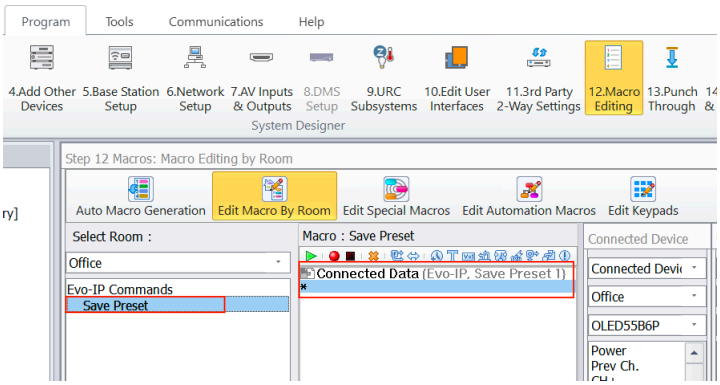


Give the command an appropriate name and then select **Evo-IP** from the list of **Available Devices** and the required command from the **Available Command** drop-down menu.



Enter the appropriate parameters (please see the section on commands for more details) and select **OK**.

The command will then be shown in the selected macro:



Commands

In this section you can find a list of all the available commands and the parameter values required for each:

Wherever a list of inputs or outputs is required, these should be comma separated (e.g. **1,2,3,4**) or defined as a range (e.g. **1-4**), or a combination of the two (e.g. **1,2-4**).

- **Save Preset** (*Save current input/output switching configuration as a preset*)
  - Preset - Choose a preset number
  - Outputs - The output numbers whose configuration should be saved. An empty list will save everything.
- **Recall Preset** (*Recall specified preset number*)
  - Preset - Choose a preset number
- **Switch Multiple Outputs** (*Switch all listed outputs to the given input*)
  - Input - Input to show
  - Outputs - list of outputs to switch to specified input. Expressed as x,y,z. For example 1,2,3.
- **Create Video Wall** (*Creates a video wall with a name and size. Also specifies the inputs and outputs to show on the video wall*)
  - Wall Name - Unique wall name (referred to by other commands)
  - Size - The video wall screen configuration expressed as w,h. For example 2,2 creates a 2x2 (4 screen) video wall.
  - Input - Input to show on the video wall
  - Outputs - The output numbers used to create the video wall. This field must contain a number of outputs equal to the amount defined in the Size field.
- **Switch Video Wall** (*Switch a video wall to show a new input*)
  - Wall Name - The wall to switch, defined previously with Create Video Wall.
  - Input - The new input to show on the wall.
- **Toggle Video Wall** (*Turn the video wall on/off*)
  - Wall Name - The wall to toggle, defined previously with Create Video Wall.
- **Delete Video Wall** (*Delete the video wall*)
  - Wall Name - The wall to delete, defined previously with Create Video Wall.
- **Factory Reset Transmitter**
  - Input - Transmitter to reset
- **Factory Reset Receiver**
  - Output - Receiver to reset
- **HDMI Toggle Mute Transmitter** (*Turn display on/off for all outputs connected to the transmitter*)
  - Input - Transmitter to mute
- **HDMI Toggle Mute Receiver** (*Turn display on/off for output*)
  - Output - Receiver to mute

- **Reboot Receiver**
  - Output - Receiver to reboot
- **Reboot Transmitter**
  - Input - Transmitter to reboot
- **Reboot All Devices** *(Reboots all transmitters and receivers)*

Downloading the Driver

Once you have configured the driver using the steps provided above you can now download the revised system configuration to your URC base station.

User Interfaces

The driver package **does not** include pre-designed interfaces.