



Vanco EVO IP controller

Crestron Driver User Guide

Driver developed by



Partner: Vanco
Model: EVO-IP
Device Type: AV Matrix

GENERAL INFORMATION:

SIMPLWINDOWS NAME:	Vanco_EVO IP_Demo_MC3
CATEGORY:	Video Distribution – Video Wall
SUMMARY:	This module will control the Vanco EVO IP range of systems, via TCP/IP.
GENERAL NOTES:	<p>The module is comprised of the main switching driver, and four additional drivers:</p> <p>Switching – used for communication with the Vanco EVO IP system, and switching of individual outputs.</p> <p>Video Wall – used to create, configure and control video walls.</p> <p>Reboot Devices –reboot or reset transmitters or receivers .</p> <p>Mute Devices –mute and unmute transmitters or receivers .</p> <p>NOTE THAT NOT ALL HARDWARE SUPPORTS ALL THE FEATURES</p>
CRESTRON HARDWARE REQUIRED:	Any Ethernet-enabled processor – need to be a 3 Series or higher
SETUP OF CRESTRON HARDWARE:	Connect the Crestron processor to the same subnet as the EVO IP controller.
VENDOR FIRMWARE:	This module has been tested with EVO IP, running API version 1.0.0
VENDOR SETUP:	<p>It is recommended that the Vanco Evo-IP system be installed, configured and tested by a suitably qualified engineer, according to Vanco documentation, prior to integration with this driver. Some additional, specific configuration is required to ensure correct operation of the driver:</p> <p>The Vanco Evo-IP Control Interface Telnet Client must be configured with a static IP address in the same range as the RTI processor in order for the two to communicate:</p> <ol style="list-style-type: none"> 1. Enter the IP address of the Evo-IP IP Control box into the web browser of a computer connected to the same network, to display the Web Interface (default password is "admin"). 2. Choose the Setup Settings tab. 3. Enter the static IP address information into the IP Setup [Telnet client and browser communication] section, and click Apply. <p>It is additionally necessary to configure an Alias (name) for each transmitter (input) device and each receiver (output) device. Access the web interface as described above, Choose the Setup Settings tab. Select a device and click edit.</p> <p>You can edit the device name in the Alias field, clicking Apply when done. Note that the name must comply with the following conventions:</p> <p>For Transmitter (input) devices: IN[number]-[name]</p>

Partner: Vanco
Model: EVO-IP
Device Type: AV Matrix

	For Receiver (output) devices: OUT[number]-[name]
	It is important that each name begins with "IN" or "OUT", which is then followed by the input or output number. You can then optionally add a hyphen (-) followed by an appropriate description for the device (note that no spaces are allowed). For example an input may be named IN1-BluRayPlayer.

CONTROL (COMMS):

COMBINED_SWITCH	S	Command received from COMBINED switching module
VIDEO_SWITCH	S	Command received from Single and MultiSwitch module for video
CONFIGURE_TX_DEVICES	S	Command received from CONFIGURE_TX_DEVICES module
CONFIGURE_RX_DEVICES	S	Command received from CONFIGURE_RX_DEVICES module
REDISCOVER_UNITS	D	Force Discovery of all EVO-IP and statuses
REBOOT_ALL_DEVICES	D	Reboots all transmitter and receivers
RESET_ALL_DEVICES	D	Factory Resets all transmitter and receivers
RECALL_PRESET_x	D	Recall Preset
SAVE_PRESET_x	S	Save Selected output Presets *This should be a comma separated list of outputs, as defined by your output aliases. For example, if you have outputs OUT1- Lounge and OUT2-Kitchen, you could send 1,2

PARAMETERS (COMMS):

IP ADDRESS	S	The IP address of the Vanco EVO IP controller.
PORT	INT	TCP Port number
POLL_TIME	SEC	Time between status requests, 0 = disable poll
User Name	S	Username used it login into the Vanco EVO-IP web interface (Default admin)
Password	S	Password used it login into the Vanco EVO-IP web interface (Default admin)

FEEDBACK (COMMS):

Partner: Vanco
Model: EVO-IP
Device Type: AV Matrix

VIDEO_SWITCH_FEEDBACK	S	Message to be fed back into Video switch module
CONNECTED	D	Connection State (ON/OFF)
CONNECTION_STATE	S	Connection status description
CONFIGURATION_STATUS	S	Status of how the EVO-IP is set up
[OUTPUT_NAME_x]	S	Alias name of OUTPUT_x
[INPUT_NAME_x]	S	Alias name of INPUT_x

Note: the following Single- and Multi-switching signals can be used for TX/RX switching:

CONTROL (SINGLE SWITCH):

RX	S	Consumes COMMS feedback for switch to update statuses
[OUTPUT_x]	A	Assign input value for OUTPUT_x

FEEDBACK (SINGLE SWITCH):

TX	S	Feeds into [xxx_SWITCH] of COMMS module
[OUTPUT_STATUS_x]	A	Input status of OUTPUT_x

CONTROL (MULTI SWITCH):

RX	S	Consumes COMMS feedback for switch to update statuses
SYNCHRONISE	D	Send TX to COMMS module
[OUTPUT_x]	A	Assign input value for OUTPUT_x

FEEDBACK (MULTI SWITCH):

TX	S	Command sent to COMMS module
[OUTPUT_STATUS_x]	A	Input status of OUTPUT_x

CONTROL (VIDEO WALL):

CREATE_VIDEO_WALL	D	Create a video wall using the specified parameters.
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Partner: Vanco
Model: EVO-IP
Device Type: AV Matrix

REMOVE_VIDEO_WALL	D	Remove Wall
ENABLE WALL	D	Enable the wall (wall must have been created 1 st)
DISABLE WALL	D	Disable the wall (wall must have been created 1 st)
[INPUT]	A	Specify an input to use as the source for the video wall.

PARAMETERS (VIDEO WALL):

Wall Name	S	Choose a wall name
Wall Height	A	Number of Screens (virtual)
Wall Width	A	Number of Screens (Horizontal)
Outputs	S	The outputs that make up the video wall. These can be expressed as comma separated values, as a range, or as a combination of the two (so, for example, "1-4", "1,2,3,4" and "1,2-4" are all the same)

FEEDBACK (VIDEO WALL):

VIDEOWALL_COMMANDS	S	Feeds into [xxx_SWITCH] of COMMS module
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CONTROL (REBOOT DEVICES):

Reboot TX x	D	Reboot a particular transmitter
Reboot RX x	D	Reboot a particular receiver
Reset TX x	D	resets a particular transmitter to its Factory Settings
Reset RX x	D	resets a particular receiver to its Factory Settings

FEEDBACK (REBOOT DEVICES):

CONFIGURE_RX_DEVICES	S	Command sent to Comms module
CONFIGURE_TX_DEVICES	S	Command sent to Comms module

CONTROL (Mute DEVICES):

Mute TX x	D	Mutes a particular transmitter
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Partner: Vanco
Model: EVO-IP
Device Type: AV Matrix

Mute RX x	D	Mutes a particular receiver
Unmute TX x	D	Un-Mutes a particular transmitter
Unmute RX x	D	Un-Mutes a particular receiver

FEEDBACK (REBOOT DEVICES):

CONFIGURE_RX_DEVICES	S	Command sent to Comms module
CONFIGURE_TX_DEVICES	S	Command sent to Comms module

TESTING:

OPS USED FOR TESTING:	MC4 2.4508.00035
SIMPL WINDOWS USED FOR TESTING:	4.14.21
CRESTRON DB USED FOR TESTING:	202.00.001.00
DEVICE DB USED FOR TESTING:	200.20.002.00
SAMPLE PROGRAM:	Vanco_EVO IP_Vx.xx_Demo.smw