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ONLINE DOCUMENTATION

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Manufacturer Website: <https://www.snapav.com>

Support Site: <https://www.snapav.com/shop/en/snapav/support>

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OVERVIEW

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This driver integrates a Binary MoIP Controller into Control4. The device can be discovered via SDDP protocol from the "Discovered" tab.

This driver supports Virtual Serial/RS-232 communication between any Serial/RS-232 driver and all of the MoIP Receivers and Transmitters. See "VIRTUAL SERIAL/RS-232" in the "SETUP" section below.

This driver supports Virtual IR communication between any IR driver and all of the MoIP Receivers and Transmitters. See "VIRTUAL IR" in the "SETUP" section below.

It is highly recommended that you connect all Transmitters and Receivers to the same network switch. As of October 1st, 2018, this is the only officially supported network topology to ensure the highest quality video.

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CHANGELOG

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v2.2

Added support for IR routing

v2.1

Added support for 2 way feedback

Fixed proxy notification bug for receivers

v1.4-v2.0

Changes for certification

v1.3

Added authentication

v1.2

Adjustments for driver certification

v1.1

Renamed inputs/outputs from TRANSMITTER/RECEIVER to TX/RX.

Changed Manufacturer from SnapAV to Binary

v1.0

Initial release.

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SETUP

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[1] - Setup and configure the Binary MoIP Controller, the receivers, and the transmitters.

[2] - If the Control4 controller that contains this driver is on the same switch as the MoIP Controller, you will need to either set the Control4 processor to a static IP address or set up a DHCP reservation in your router and then manually enter the IP address of the MoIP controller in the driver instead of using SDDP/Discovery. This is due to IGMP snooping filtering SDDP traffic.

[3] - From the connections tab, bind any video, audio, control, or room bindings to the corresponding RX and TX per their assigned static "ID". Each RX and TX receives a static "ID" on the MoIP controller's local UI. This ID is assigned automatically during the discovery process and will not change. It is best practice to discover and name all RXs and TXs in the MoIP controller before connecting them here in Control4.

NOTE: When de-embedding 2-channel audio from an HDMI source (such as Roku) on the

transmitter, simply bind the source's analog audio output (e.g. Roku) to the proper

analog audio input (e.g. distributed amplifier).

NOTE: To use the loopback connection on a transmitter, bind the connected source to both the corresponding transmitter and to the device connected through the loopback port.

[4] - If prompted, enter the username and password values into the properties. Starting after MoIP Controller FW 1.0.1.9, drivers must authenticate to the Controller before communication. Default credentials are binary/binary.

VIRTUAL SERIAL/RS-232

[1] - After following the steps above, connect the device to be controlled by Serial/RS-232 to the Serial/RS-232 of the MoIP Receivers or Transmitters.

[2] - Add the driver for the Serial/RS-232 device to your project, and connect it to the Serial/RS-232 connection binding on the Binary MoIP Controller that corresponds to the Binary MoIP Receiver/Transmitter that the Serial/RS-232 device is connected to. (i.e. TV connected to Receiver 1, TV driver connected to RX 1 RS\_232 Output. Blu-Ray Player connected to Transmitter 1, Blu-Ray Player driver connected to TX 1 RS\_232 Output.)

[3] - The Binary MoIP Controller driver will automatically detect the Serial/RS-232 settings of the connected driver. Test that the Serial/RS-232 commands from the driver are properly controlling the connected device.

NOTES

When using the RS-232 port on the transmitters and receivers, the pins corresponding to Transmit, Receive, and Ground are 6, 5, and 4 respectively.

When using the Serial connections for control, you may experience a delay in 2 way feedback.

- For a Straight connection, DB9 pin 2 connects to RJ45 pin 5, DB9 pin 3 connects to RJ45 pin 6, and DB9 pin 5 connects to RJ45 pin 4.

- For a Null Modem Connection, DB9 pin 2 connects to RJ45 pin 6, DB9 pin 3 connects to RJ45 pin 5, and DB9 pin 5 connects to RJ45 pin 4.

- For further explanation of the RS-232 pinouts and configuration, please reference the

RS-232 Serial Functionality PDF on the Binary MoIP product support page.

VIRTUAL IR

[1] - After following the steps above, connect the device to be controller by IR to the IR Flasher of the MoIP Receivers or Transmitters.

[2] - Add the driver for the IR device to your project, and connect it to the IR connection binding on the Binary MoIP Controller that corresponds to the Binary MoIP Receiver/Transmitter that the IR device is connected to. (i.e. RX 1 IR flasher to TV, TV driver connected to RX 1 IR Output.)

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PROPERTIES

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Status:

Displays the status of the connection between the driver and the Binary MoIP Controller.

Controller Version:

Displays the current firmware version of the connected Binary MoIP Controller.

Receivers:

Displays the number of receivers currently connected to the Binary MoIP Controller.

Transmitters:

Displays the number of transmitters currently connected to the Binary MoIP Controller.

Enable Automatic CEC Power Controller:

Enable or disable the driver from automatically sending power commands with the room power.

Username:

Username for logging into device. This field is only visible on MoIP Controller FW after 1.0.1.9

Password

Password for logging into device. This field is only visible on MoIP Controller FW after 1.0.1.9

DEBUG MODE:

Enable or disable the driver from printing verbose debugging information.

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ACTION BUTTONS

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Update:

Forces the driver to manually fetch the latest states from the Binary MoIP Controller.

Print Receiver List:

Prints the current list of detected receivers into the Lua Output Window.

Print Transmitter List:

Prints the current list of detected transmitters into the Lua Output Window.

Reboot Controller:

Reboots the MoIP Controller.

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COMMANDS

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SetResolution:

Sets the selected receiver to the given resolution.

- Receiver: The receiver to set the resolution on. (1-48)

- Resolution: The resolution to set the receiver to.

(Pass Through, 1080p 60Hz, 1080p 50Hz, 2160p 30Hz, 2160p 25Hz)

SetOSD:

Sets the OSD on the selected receiver to the given message.

- Receiver: The receiver to set the OSD on. (1-48)

- Message: The message to display on the receiver. (Text)

ClearOSD:

Clears the OSD on the selected receiver.

- Receiver: The receiver to clear the OSD on. (1-48)

SetCECPower:

Sends Power On/Off over CEC from the selected receiver.

- Receiver: The receiver to send the signal over. (1-48)

- Power: The power signal to send through CEC. (ON, OFF)

RebootController:

Reboots the MoIP Controller.

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