**EVOIPCTL2 ASCII API for Integration and Driver Development**

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# Summary

## Brief introduction

This document is used to introduce the relevant API instructions based on CTL100AL. This document is applicable to test engineers and software engineers.

## Direction for use

 Before using API instructions for the EVOIPCTL2, you must use TELNET or similar IP program to remotely log in to the corresponding terminal, or use the serial port terminal for API instruction interaction. Either of the following methods can go to the control terminal for API interaction.

1. TELNET/IP- Log in to EVOIPCTL2 with the default port number of 23.
2. Use the serial port line to connect the serial port of the EVOIPCTL2 rear panel with the PC or controller. Open a serial port terminal tool in the PC, and select the corresponding serial interface connection, you can enter the controller terminal for API interaction. The default port rate is 57600,8 bit data bit, 1 bit stop bit, no check bit.


## Key concept

 **RX1：**RX 1 appearing below refers to RX with ID 1

 **TX1：**The TX 1 presented below refers to the TX with the ID 1

 **SS:** The SS presented below refers to the secondary flow module of the TX

# EVOIPCTL2 System API reference

## Help information

|  |
| --- |
|  API |
| The HELP or? |
| description |
| Print the API instructions supported by the current system |
| parameter | description |
|  |  |
| returned value | description |
| HELP information | Print the HELP information |
| example |
| TELNET Log in to the EVOIPCTL2input command:HELPinput command:? |

## Status information output

|  |
| --- |
| API |
| R STATUS |
| description |
| Output EVOIPCTL2 status information and the TX / RX status information added. |
| parameter | description |
|  |  |
| returned value | description |
| status information |  |
| example |
| TELNET Log in to the EVOIPCTL2input command:R STATUSreturn:================================================================ IP Control Box Controller Status Info FW Version: 1.10.07(L)Power IR BaudOn On 57600 TX Type EDID IP NET/SigNONERX Type From IP NET/HDMI Res ModeNONELAN DHCP IP Gateway Subnet Mask01\_POE Off 169.254.008.100 169.254.008.001 255.255.000.00002\_CTRL On 192.168.070.113 192.168.070.001 255.255.255.000 (static:192.168.006.100 192.168.006.001 255.255.255.000)Telnet LAN01 MAC LAN02 MAC0023 6C:DF:FB:00:86:23 6C:DF:FB:00:84:BDDomain Nameevo-ip.local================================================================ |

## Configure the EVOIPCTL2 rear panel GPIO direction

|  |
| --- |
| API |
| S GPIO [gpio] DIR IN/OUT |
| description |
| Configure the EVOIPCTL2 rear panel GPIO direction |
| parameter | description |
| gpio | 1: GPIO12: GPIO23: GPIO34: GPIO4 |
| IN | The GPIO acts as the input function |
| OUT | The GPIO acts as the output function |
| returned value | description |
| [SUCCESS]Set GPIO 01 as input port. | The GPIO 1 is configured as an input mode |
| [SUCCESS]Set GPIO 01 as output port. | The GPIO 1 is configured as an output mode |
| example |
| TELNET Log in to the EVOIPCTL2Configure GPIO 1 as an input mode, enter a command:S GPIO 1 DIR INreturn:[SUCCESS]Set GPIO 01 as input port.Configure GPIO 1 as the output mode, enter the command:S GPIO 1 DIR OUTreturn:[SUCCESS]Set GPIO 01 as output port. |

## Configure the EVOIPCTL2 rear panel GPIO output level

|  |
| --- |
| API |
| S GPIO [gpio] LEVEL Low/High |
| description |
| With the GPIO output level of EVOIPCTL2 rear panel, this API only affects GPIO with output. |
| parameter | description |
| gpio | 1: GPIO12: GPIO23: GPIO34: GPIO4 |
| Low/High | Low: Output low levelHigh: Output at a high level |
| returned value | description |
| [SUCCESS]Set GPIO 01 output level 0. | The GPIO 1 output at low level |
| [SUCCESS]Set GPIO 01 output level 1. | The GPIO 1 is output at a high level |
| example |
| TELNET Log in to the EVOIPCTL2Configure GPIO 1 output low level, input command:S GPIO 1 LEVEL Lowreturn:[SUCCESS]Set GPIO 01 output level 0.Configure GPIO 1 output high level, input command:S GPIO 1 LEVEL Highreturn:[SUCCESS]Set GPIO 01 output level 1. |

## Get the EVOIPCTL2 rear panel GPIO input level

|  |
| --- |
| API |
| R GPIO [gpio] LEVEL |
| description |
| The GPIO input level of the rear panel of EVOIPCTL2 is obtained, and this API only acts on the GPIO with the input direction. |
| parameter | description |
| gpio | 1: GPIO12: GPIO23: GPIO34: GPIO4 |
| returned value | description |
| [SUCCESS]Get GPIO 01 real input level 1. | The GPIO 1 acquisition input level is a high level |
| example |
| TELNET Log in to the EVOIPCTL2Get the GPIO 1 input level, and enter the input command:R GPIO 1 LEVELreturn:[SUCCESS]Get GPIO 01 real input level 1. |

##

## Get the GPIO status information of the EVOIPCTL2 rear panel

|  |
| --- |
| API |
| R GPIO [gpio] STATUS |
| description |
| Get the GPIO status information of the EVOIPCTL2 rear panel. |
| parameter | description |
| gpio | Optional parameter that obtaining all GPIO states when not specified1: GPIO12: GPIO23: GPIO34: GPIO4 |
| returned value | description |
| Returns the GPIO status information |  |
| example |
| TELNET Log in to the EVOIPCTL2Get the GPIO 1 status information and enter the command:R GPIO 1 STATUSreturn:================================================================IP Control Box EVOIPCTL2 GPIO InfoFW Version: 2.00.16GPIO DIR Set Get01 Out 1 1================================================================ |

## Set the EVOIPCTL2 serial port baud rate

|  |
| --- |
| API |
| S RS232 BAUDRATE [a] |
| description |
| Set EVOIPCTL2 serial port baud rate to a, and the factory default is 57600 |
| parameter | description |
| a | [0:115200 1:57600, 2:38400, 3:19200, 4:9600] |
| returned value | description |
| [SUCCESS]Set RS232 Baud Rate to 115200bps. | Set the baud rate to 115200 successfully |
| example |
| TELNET Log in to the EVOIPCTL2Set serial port baud rate to 115200, enter command:S RS232 BAUDRATE 0return:[SUCCESS]Set RS232 Baud Rate to 115200bps.Set the serial port baud rate to 57600, enter the command:S RS232 BAUDRATE 1return:[SUCCESS]Set RS232 Baud Rate to 57600bps. |

## Reset the EVOIPCTL2 system configuration

|  |
| --- |
| API |
| S RESET |
| description |
| Reset the system configuration information and Clear the equipment added to the system. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]System will reset to default config, it will take about 40 seconds,and RS232 will disable during this time, please wait... | The reset was successful |
| example |
| TELNET Log in to the EVOIPCTL2Reset the system configuration, enter the command:S RESETreturn:Sure to RESET system to default settings?Type "Yes" after next prompt to confirm...input yesreturn:[SUCCESS]System will reset to default config, it will take about 40 seconds,and RS232 will disable during this time, please wait... |

## Reset the EVOIPCTL2 network configuration

|  |
| --- |
| API |
| S RESET NETWORK |
| description |
| Reset the EVOIPCTL2 network configuration information. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]Network will reset to default config, it will take about 40 seconds,and RS232 will disable during this time, please wait... | The reset was successful |
| example |
| TELNET Log in to the EVOIPCTL2Reset the system configuration, enter the command:S RESET NETWORKreturn:Sure to RESET network config to default settings?Type "Yes" after next prompt to confirm...input yesreturn:[SUCCESS]Network will reset to default config, it will take about 40 seconds,and RS232 will disable during this time, please wait... |

##  Reset EVOIPCTL2 for all configurations

|  |
| --- |
| API |
| S RESET ALL |
| description |
| Reset EVOIPCTL2 all configuration information. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]System and network will reset to default config, it will take about 40 seconds,and RS232 will disable during this time, please wait... | The reset was successful |
| example |
| TELNET Log in to the EVOIPCTL2Reset the system configuration, enter the command:S RESET ALLreturn:Sure to RESET system and network to default settings?Type "Yes" after next prompt to confirm...input yesreturn:[SUCCESS]System and network will reset to default config, it will take about 40 seconds,and RS232 will disable during this time, please wait... |

## Restart the EVOIPCTL2

|  |
| --- |
| API |
| S REBOOT |
| description |
| Restart the EVOIPCTL2 |
| parameter | description |
|  |  |
| returned value | description |
| System will restart, please wait... | Equipment restart |
| example |
| TELNET Log in to the EVOIPCTL2input command:S REBOOTreturn:System will restart, please wait... |

# The EVOIPRX2 (RX) control module API reference

## Set the RX ID

|  |
| --- |
| API |
| S RX [rx] ID [id] |
| description |
| Set the RX ID. |
| parameter | description |
| rx | [001... 762]: RX ID |
| id | [001... 762]: New ID |
| returned value | description |
| [SUCCESS]Set receiver 001 ID to 760. | Set the RX1 ID to 760 |
| [ERROR]Receiver 100 does not exist. | RX 100 does not exist |
| example |
| TELNET Log in to the EVOIPCTL2RX1 ID Set to 760, enter the command:S RX 1 ID 760return:[SUCCESS]Set receiver 001 ID to 760. |

## Set the RX name

|  |
| --- |
| API |
| S RX [rx] NAME [name] |
| description |
| Set the RX name. |
| parameter | description |
| rx | [001... 762]: RX ID |
| name | Name, with a maximum length of 16 bytes |
| returned value | description |
| [SUCCESS]Set receiver 001 name:TEST1. | Set the RX 1 name to be the TEST1 |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 alias to TEST 1, enter the command:S RX 1 NAME TEST1return:[SUCCESS]Set receiver 001 name:TEST1. |

## Set RX routing

|  |
| --- |
| API |
| S RX [rx] SWITCH [tx] ALL |
| description |
| Set the RX VIDEO / AUDIO / IR / RS-232 / USB / CEC routing |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| tx | [001...762]: TX ID0: Cancel the routing |
| returned value | description |
| [SUCCESS]Set receiver 001 from transmitter 003. | Set the RX1 VIDEO / AUDIO / IR / RS-232 / USB / CEC signal to route to TX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 SWITCH 3 ALLreturn:[SUCCESS]Set receiver 001 from transmitter 003.input command:S RX 1 SWITCH 0 ALLreturn:[SUCCESS]Set receiver 001 VARSUC unselect transmitter. |

## Lock up the RX VIDEO routing

|  |
| --- |
| API |
| S RX [rx] SWITCH [tx] VIDEO |
| description |
| Lock in the RX VIDEO signal routing. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| tx | [001...762]: TX ID0: Unlock |
| returned value | description |
| [SUCCESS]Set receiver 001 video from transmitter 003. | Set the RX 1 lock video signal to route to TX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 SWITCH 3 VIDEOreturn:[SUCCESS]Set receiver 001 video from transmitter 003.input command:S RX 1 SWITCH 0 VIDEOreturn:[SUCCESS]Set receiver 001 unlocking video signals. |

##

## Lock up the RX AUDIO routing

|  |
| --- |
| API |
| S RX [rx] SWITCH [tx] AUDIO |
| description |
| Lock in the RX AUDIO signal routing. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| tx | [001...762]: TX ID0: Unlock |
| returned value | description |
| [SUCCESS]Set receiver 001 audio from transmitter 003. | Set the RX 1 lock audio signal to route to the TX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 SWITCH 3 AUDIOreturn:[SUCCESS]Set receiver 001 audio from transmitter 003.input command:S RX 1 SWITCH 0 AUDIOreturn:[SUCCESS]Set receiver 001 unlocking audio signals. |

## Lock up the RX IR routing

|  |
| --- |
| API |
| S RX [rx] SWITCH [tx] IR |
| description |
| Locking on the RX IR signal routing. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| tx | [001...762]: TX ID0: Unlock |
| returned value | description |
| [SUCCESS]Set receiver 001 IR from transmitter 003. | Set the RX 1 lock IR signal to route to TX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 SWITCH 3 IRreturn:[SUCCESS]Set receiver 001 IR from transmitter 003.input command:S RX 1 SWITCH 0 IRreturn:[SUCCESS]Set receiver 001 unlocking IR signals. |

## Lock up the RX RS-232 routing

|  |
| --- |
| API |
| S RX [rx] SWITCH [tx] RS232 |
| description |
| Locking the RX RS-232 signal routing. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| tx | [001...762]: TX ID0: Unlock |
| returned value | description |
| [SUCCESS]Set receiver 001 RS232 from transmitter 003. | Set the RX 1 lock RS-232 signal to route to TX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 SWITCH 3 RS232return:[SUCCESS]Set receiver 001 RS232 from transmitter 003.input command:S RX 1 SWITCH 0 RS232return:[SUCCESS]Set receiver 001 unlocking RS232 signals. |

## Lock up the RX USB routing

|  |
| --- |
| API |
| S RX [rx] SWITCH [tx] USB |
| description |
| Lock in the RX USB signal routing. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| tx | [001...762]: TX ID0: Unlock |
| returned value | description |
| [SUCCESS]Set receiver 001 USB from transmitter 003. | Set the RX 1 lock USB signals to route to TX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 SWITCH 3 USBreturn:[SUCCESS]Set receiver 001 USB from transmitter 003.input command:S RX 1 SWITCH 0 USBreturn:[SUCCESS]Set receiver 001 unlocking USB signals. |

## Lock up the RX CEC routing

|  |
| --- |
| API |
| S RX [rx] SWITCH [tx] CEC |
| description |
| Lock in the RX CEC signal routing. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| tx | [001...762]: TX ID0: Unlock |
| returned value | description |
| [SUCCESS]Set receiver 001 CEC from transmitter 003. | Set the RX 1 lock CEC signal to route to TX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 SWITCH 3 CECreturn:[SUCCESS]Set receiver 001 CEC from transmitter 003.input command:S RX 1 SWITCH 0 CECreturn:[SUCCESS]Set receiver 001 unlocking CEC signals. |

##  Control the RX power LED flashes

|  |
| --- |
| API |
| S RX [rx] LED ON/OFF |
| description |
| Set the receiver power LED flashes for 30 seconds or stop flashing. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | The power light flashes for 30 seconds |
| OFF | The power LED is always on. |
| returned value | description |
| [SUCCESS]Flash power LED on receiver 001 and keep 30 seconds. | Flash the RX 1 power LED |
| example |
| TELNET Log in to the EVOIPCTL2Flash the RX 1 power LED, enter the command:S RX 1 LED ONreturn:[SUCCESS]Flash power LED on receiver 001 and keep 30 seconds.Stop flashing the power LED, enter the command:S RX 1 LED OFFreturn:[SUCCESS]Disable flash power LED on receiver 001. |

##  Set the RX HDMI OUTPUT enable

|  |
| --- |
| API |
| S RX [rx] OUTPUT ON/OFF |
| description |
| Switch the switch RX HDMI OUTPUT. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | Open the HDMI OUTPUT |
| OFF | Turn off the HDMI OUTPUT |
| returned value | description |
| [SUCCESS]Set receiver 001 output on. | Open the HDMI OUTPUT |
| example |
| TELNET Log in to the EVOIPCTL2Open the HDMI OUTPUT, and enter the command:S RX 1 OUTPUT ONreturn:[SUCCESS]Set receiver 001 output on.Close the HDMI OUTPUT and enter the command:S RX 1 OUTPUT O FFreturn:[SUCCESS]Set receiver 001 output off. |

##  Set the RX HDMI OUTPUT MUTE

|  |
| --- |
| API |
| S RX [rx] OUTPUT MUTE ON/OFF |
| description |
| Set the RX HDMI OUTPUT MUTE (black screen). |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | Open the HDMI OUTPUT MUTE |
| OFF | Turn off the HDMI OUTPUT MUTE |
| returned value | description |
| [SUCCESS]Set receiver 001 output mute on. | Open the HDMI OUTPUT MUTE |
| example |
| TELNET Log in to the EVOIPCTL2Open the HDMI OUTPUT MUTE, and enter the command:S RX 1 OUTPUT MUTE ONreturn:[SUCCESS]Set receiver 001 output mute on.Close the HDMI OUTPUT MUTE and enter the command:S RX 1 OUTPUT MUTE OFFreturn:[SUCCESS]Set receiver 001 output mute off. |

##  Set the RX output audio configuration

|  |
| --- |
| API |
| S RX [rx] OUTPUT AUDIO [aud] |
| description |
| Set the receiver output audio configuration. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| aud | 0: From source and bypass1: From source and downmix2: S/PDIF return3: ARC/eARC return4: ARC/eARC downmix and return |
| returned value | description |
| [SUCCESS]Set receiver 002 output audio configuration done. | Set receiver 002 output audio configuration done. |
| example |
| TELNET Log in to the EVOIPCTL2Set receiver 002 output audio configuration to From source and downmix, enter the command:S RX 2 OUTPUT AUDIO 1return:[SUCCESS]Set receiver 002 output audio configuration done. |

##  Set the RX output resolution

|  |
| --- |
| API |
| S RX [rx] OUTPUT RESOLUTION [res] |
| description |
| Set the RX output resolution to res |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| res | 00: Bypass01: 1080p@5002: 1080p@6003: 720p@5004: 720p@6005: 2160p@2406: 2160p@3007: 2160p@5008: 2160p@6009: 1280x1024@6010: 1360x768@6011: 1440x900@6012: 1680x1050@6013: 1920x1200@60 |
| returned value | description |
| [SUCCESS]Set receiver 001 resolution to 1080p@60Hz. | Set the RX 1 output resolution to 1080P60 |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 output resolution to 1080P60, enter the command:S RX 1 OUTPUT RESOLUTION 2return:[SUCCESS]Set receiver 001 resolution to 1080p@60Hz. |

##  Set the RX screen to rotate

|  |
| --- |
| API |
| S RX [rx] OUTPUT ROTATE [rtt] |
| description |
| Set the RX screen to rotate. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| rtt | 0:0°1:90°2:180°3:270° |
| returned value | description |
| [SUCCESS]Set receiver 001 rotate 90 degree. | Set the RX 1 screen to flip by 90 degrees |
| example |
| TELNET Log in to the EVOIPCTL2Set RX 1 screen flip 90 degrees, enter command:S RX 1 OUTPUT ROTATE 1return:[SUCCESS]Set receiver 001 rotate 90 degree. |

##  Set the RX screen flip

|  |
| --- |
| API |
| S RX [rx] OUTPUT FLIP HOR/VER/OFF |
| description |
| Set the RX screen to flip over. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| HOR | flip horizontal |
| VER | flip vertical |
| OFF | Normal display |
| returned value |  |
| [SUCCESS]Set receiver 001 flip done. | Set the RX 1 screen to flip over |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 screen to flip horizontally and enter the command:S RX 1 OUTPUT FLIP HORreturn:[SUCCESS]Set receiver 001 flip done. |

##  Set the RX IR level

|  |
| --- |
| API |
| S RX [rx] IR VOL 5V/12V |
| description |
| Set the RX IR level. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| 5V | Use a 5V IR wire line |
| 12V | Use a 12V IR wire line |
| returned value | description |
| [SUCCESS]Set receiver 001 IR voltage 5V. | Set RX 1 to use 5V IR wire |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 to use a 5V IR wire, enter the command:S RX 1 IR VOL 5Vreturn:[SUCCESS]Set receiver 001 IR voltage 5V. |

##  Set the RX IO level

|  |
| --- |
| API |
| S RX [rx] IO VOL 5V/12V |
| description |
| Set the RX IO level. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| 5V | The IO level was set at 5V |
| 12V | The IO level was 12V |
| returned value | description |
| [SUCCESS]Set receiver 001 io voltage 5V. | Set the RX 1 IO level to 5V |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 IO level to 5V, and enter the command:S RX 1 I O VOL 5Vreturn:[SUCCESS]Set receiver 001 io voltage 5V. |

##  Set the RX IO direction

|  |
| --- |
| API |
| S RX [rx] IO 1 DIR IN/OUTS RX [rx] IO 2 DIR IN/OUT |
| description |
| Set the RX IO direction. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| IN | The IO is set as the input |
| OUT | The IO is set to the output |
| returned value | description |
| [SUCCESS]Set receiver 001 IO 1 as input port. | Set the RX 1 IO 1 as the input |
| example |
| TELNET Log in to the EVOIPCTL2Set RX 1 IO 1 as input, enter a command:S RX 1 IO 1 DIR INreturn:[SUCCESS]Set receiver 001 IO 1 as input port. |

##  Set the RX IO output level

|  |
| --- |
| API |
| S RX [rx] IO 1 OUT 0/1S RX [rx] IO 2 OUT 0/1 |
| description |
| The RX IO output level is set and is only valid if the IO direction is set to the output. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| 0 | IO output low level |
| 1 | IO output at a high level |
| returned value | description |
| [SUCCESS]Set receiver 001 IO 1 output level 0. | Set the RX 1 IO 1 output low level |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 IO 1 output low level, enter the command:S RX 1 IO 1 OUT 0return:[SUCCESS]Set receiver 001 IO 1 output level 0. |

##  Set the RX Relay switch

|  |
| --- |
| API |
| S RX [rx] RELAY 1 OPEN/CLOSES RX [rx] RELAY 2 OPEN/CLOSE |
| description |
| Set the RX Relay switch. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| OPEN | Relay break |
| CLOSE | Relay close |
| returned value | description |
| [SUCCESS]Set receiver 001 Relay 1 close. | Set the RX 1 Relay 1 to close |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 Relay 1 to close, and enter the command:S RX 1 RELAY 1 CLOSEreturn:[SUCCESS]Set receiver 001 Relay 1 close. |

##  Set the RX CEC / ARC switch

|  |
| --- |
| API |
| S RX [rx] SAC ARC/CEC/OFF |
| description |
| Switch RX CEC / ARC switch, open the CEC by default. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ARC | open ARC |
| CEC | open CEC |
| OFF | Close the CEC and the ARC |
| returned value | description |
| [SUCCESS]Set receiver 001 select ARC, the receiver will reboot if setting changed. | Set the RX 1 to turn on the ARC |
| example |
| TELNET Log in to the EVOIPCTL2Set RX 1 to turn on ARC and enter the command:S RX 1 SAC ARCreturn:[SUCCESS]Set receiver 001 select ARC, the receiver will reboot if setting changed. |

##  Set the RX eARC to downgrade to the ARC

|  |
| --- |
| API |
| S RX [rx] EARC DOWNGRADE ON/OFF |
| description |
| Set RX eARC to ARC, only when RX turns on ARC. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | Audio goes back to the ARC signal |
| OFF | Audio goes back to the eARC signal |
| returned value | description |
| [SUCCESS]Set receiver 001 eARC downgrade on. | Set the RX 1 audio return source to be the ARC |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 audio return source to ARC, enter the command:S RX 1 EARC DOWNGRADE ONreturn:Set receiver 001 eARC downgrade on. |

##  Set the RX network interface

|  |
| --- |
| API |
| S RX [rx] NET FIBER/COPPER |
| description |
| Set RX network interface, default to RJ45 port. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| FIBER | The network card is in light mode |
| COPPER | The network card is electric mode |
| returned value | description |
| [SUCCESS]Set receiver 001 network interface to Copper. | Set the RX 1 network card to the electric mode |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX 1 network card to the electric mode, enter the command:S RX 1 NET COPPERreturn:[SUCCESS]Set receiver 001 network interface to Copper. |

##  Set the RX USB disk / camera switch

|  |
| --- |
| API |
| S RX [rx] USB DATA ON/OFF |
| description |
| Set the RX USB disk / camera switch, the USB routing of RX will only open KVM devices by default, and USB DATA ON is set to open USB disk / camera. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | Turn on the USB disk / camera |
| OFF | Turn off the USB disk / camera |
| returned value | description |
| [SUCCESS]Set receiver 001 usb data on. | Turn on the RX1 USB disk / camera |
| example |
| TELNET Log in to the CTL100ALOpen RX1 USB disk / camera and enter the command:S RX 1 USB DATA ONreturn:[SUCCESS]Set receiver 001 usb data on. |

##  Send CEC data to RX (Guest mode)

|  |
| --- |
| API |
| S RX [rx] CEC SEND xx xx |
| description |
| Send CEC data to RX (Guest mode) |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| xx xx | 16 decimal CEC instruction code |
| returned value | description |
| [SUCCESS]Send CEC data to receiver 001 done. | The CEC instruction was sent successfully |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 CEC SEND 4F 36return:[SUCCESS]Send CEC data to receiver 001 done. |

##  Send IR data to RX (Guest mode)

|  |
| --- |
| API |
| S RX [rx] IR SEND xx xx xx xx |
| description |
| Send IR data to RX (Guest mode) |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| xx xx xx xx | 16 decimal IR instruction code, support CCF format |
| returned value | description |
| [SUCCESS]Send IR data to receiver 001 done. | Send the IR command successfully |
| example |
| TELNET Log in to the EVOIPCTL2input command:S RX 1 IR SEND 0000006700000022015600ab001600600016006000160060001600160016006000160016001600600016001600160016001600160016001600160060001600160016006000160016001600600016006000160016001600600016001600160016001600600016006000160060001600160016006000160016001600600016006000160016001600160016001600160593return:[SUCCESS]Send IR data to receiver 001 done. |

##  Set the RX serial port parameters

|  |
| --- |
| API |
| S RX [rx] GUEST ON/OFF BR [br] BIT [bit] |
| description |
| Set the RX serial port parameters |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | Open the serial port to Guest mode |
| OFF | Close the serial port, Guest mode |
| br | [0:300 1:600 2:1200 3:2400 4:4800 5:9600][6:19200 7:38400 8:57600 9:115200] |
| bit | Data Bits + Parity + Stop Bitsexample: 8n1Data Bits=[5...8], Parity=[n o e], Stop Bits=[1..2] |
| returned value | description |
| [SUCCESS]Set serial guest mode config done. | The RX Serial port parameters was set successfully |
| example |
| TELNET Log in to the EVOIPCTL2Set RX 1 open serial port Guest mode, port rate 115200,8-bit data bit, no check bit, 1-bit stop bit, input command:S RX 1 GUEST ON BR 9 BIT 8N1return:[SUCCESS]Set serial guest mode config done. |

##  Start the RX serial port Guest mode

|  |
| --- |
| API |
| S RX [rx] GUEST |
| description |
| Start RX serial port Guest mode and is only valid if the serial port parameter is set to GUEST ON |
| parameter | description |
| rx | [001... 762]: RX ID |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the EVOIPCTL2Start the RX 1 serial port Guest mode and enter the command:S RX 1 GUEST |

##  Exit the RX serial port, Guest mode

|  |
| --- |
| API |
| EXITGUEST |
| description |
| After starting the RX serial port Guest mode, send the EXITGUEST to exit the Guest mode |
| parameter | description |
|  |  |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the EVOIPCTL2Exit the RX 1 serial port Guest mode and enter the command:EXITGUEST |

##  Set the RX IP mode

|  |
| --- |
| API |
| S RX [rx] IPMODE DHCP/STATIC |
| description |
| Set the IP mode for the RX |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| DHCP | Dynamic IP |
| STATIC | Static IP |
| returned value | description |
| [SUCCESS]Set transmitter 001 ip mode to dhcp.Use "S RX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart the RX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set RX 1 to Dynamic IP mode, enter the command:S RX 1 IPMODE DHCPreturn:[SUCCESS]Set transmitter 001 ip mode to dhcp.Use "S RX xx NETWORK REBOOT" command to apply new config!!! |

##  Set the RX IP address

|  |
| --- |
| API |
| S RX [rx] STATIC IP [ip] |
| description |
| Set the IP address for RX, only valid when IPMODE is STATIC. |
| parameter | description |
| rx | [001... 762]: RX ID |
| ip | IP addresses, such as 169.254.10.10 |
| returned value | description |
| [SUCCESS]Set receiver 001 IP address to 169.254.020.006.Use "S RX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart the RX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set the IP of RX 1 to 169.254.20.6, enter the command:S RX 1 STATIC IP 169.254.20.6return:[SUCCESS]Set receiver 001 IP address to 169.254.020.006.Use "S RX xx NETWORK REBOOT" command to apply new config!!! |

##  Sets the RX subnet mask

|  |
| --- |
| API |
| S RX [rx] STATIC MASK [mask] |
| description |
| Set the subnet mask for RX, only valid when IPMODE is STATIC. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| mask | Subnet mask, such as 255.255.0.0 |
| returned value | description |
| [SUCCESS]Set transmitter 001 subnet mask address to 255.255.000.000.Use "S RX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart the RX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set the subnet mask of RX 1 to 255.255.0.0, enter the command:S RX 1 STATIC MASK 255.255.0.0return:[SUCCESS]Set transmitter 001 subnet mask address to 255.255.000.000.Use "S RX xx NETWORK REBOOT" command to apply new config!!! |

##  Set the RX gateway address

|  |
| --- |
| API |
| S RX [rx] STATIC GATEWAY [gw] |
| description |
| Sets the gateway address of RX and is only valid when IPMODE is STATIC. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| gw | Gateway address, such as 169.254.0.1 |
| returned value | description |
| [SUCCESS]Set transmitter 001 gateway address to 169.254.000.001.Use "S RX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart the RX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set the gateway address of RX to 169.254.0.1, enter the command:S RX 1 STATIC GATEWAY 169.254.0.1return:[SUCCESS]Set transmitter 001 gateway address to 169.254.000.001.Use "S RX xx NETWORK REBOOT" command to apply new config!!! |

##  Set the RX network card to restart

|  |
| --- |
| API |
| S RX [rx] NETWORK REBOOT |
| description |
| Set the network restart for RX |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| returned value | description |
| [SUCCESS]Set receiver 001 reboot and apply all the new config. | The setting is successful and needs to restart the RX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Restart the RX 1 network card and enter the command:S RX 1 NETWORK REBOOTreturn:[SUCCESS]Set receiver 001 reboot and apply all the new config. |

##  Remove the RX from the system

|  |
| --- |
| API |
| S RX [rx] DELETE |
| description |
| delete RX |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| returned value | description |
| [SUCCESS]Delete receiver 001 done. | Delete RX 1 successfully |
| example |
| TELNET Log in to the EVOIPCTL2Delete RX 1, enter the command:S RX 1 DELETEreturn:[SUCCESS]Delete receiver 001 done. |

##  Restart RX

|  |
| --- |
| API |
| S RX [rx] REBOOT |
| description |
| restart RX |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| returned value | description |
| [SUCCESS]Set receiver 001 reboot and apply all the new config. | Restart success |
| example |
| TELNET Log in to the EVOIPCTL2Restart RX 1, enter the command:S RX 1 REBOOTreturn:[SUCCESS]Set receiver 001 reboot and apply all the new config. |

##  Reset RX

|  |
| --- |
| API |
| S RX [rx] RESET |
| description |
| reset RX |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| returned value | description |
| [SUCCESS]Set receiver 001 reset to default setting. | The reset was successful |
| example |
| TELNET Log in to the EVOIPCTL2Reset the RX 1, enter the command:S RX 1 RESETreturn:[SUCCESS]Set receiver 001 reset to default setting. |

##  Get the RX status information

|  |
| --- |
| API |
| R RX [rx] STATUS |
| description |
| To obtain the status information of RX, to obtain the status information of all RX without the parameter rx, namely, R RX STATUS is the same as R RX 0 STATUS. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| returned value | description |
| Returns the RX status information | Include the version number, network information and other states |
| example |
| TELNET Log in to the EVOIPCTL2Get the RX 1 status information, and enter the command:R RX 1 STATUSreturn:================================================================IP Control Box CTL100AL Receiver InfoFW Version: 2.00.16ID Type Net HPD Ver Mode Res Rotate Name001 Gen 2 Off On 3.00.02 MX 02 0 Receiver 001>>Fix Vid /Aud /IR /Ser /USB /CEC MCast Video Mute000 /000 /000 /000 /000 /000 On On Off>>Sel Vid /Aud /IR /Ser /USB /CEC001 /001 /001 /001 /001 /001>>SAC OSP SGEn/Br/BitARC 4 Off /9 /8n1>>Pin IOVOL/IODIR/IODAT IRVOL RLY PHY(1) 12 Out 0 12 Open Copper(2) 12 Out 0 Open>>IM MACStatic 6C:DF:FB:00:02:EF>>IP GW SM169.254.020.006 169.254.000.001 255.255.000.000================================================================ |

##  Set the RX preset IP mode

|  |
| --- |
| API |
| S RX PRESET IPMODE [mode] |
| description |
| Set the preset IP mode for RX, and assign RX's IP based on this preset mode when adding RX to the system. |
| parameter | description |
| mode | 0:AUTOIP 1:DHCP 2:STATIC |
| returned value | description |
| [SUCCESS]Set receiver preset IP to static mode. | Successfully set, RX preset IP mode to static. |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX preset IP mode to static, and enter the command:S RX PRESET IPMODE 2return： [SUCCESS]Set receiver preset IP to static mode. |

##  Set the RX preset IP start address

|  |
| --- |
| API |
| S RX PRESET START IP [ip] |
| description |
| Set the RX preset IP start address. |
| parameter | description |
| ip | IP address，ex.169.254.10.10 |
| returned value | description |
| [SUCCESS]Set receiver preset IP min 172.016.010.001. | Set the RX preset IP start address to 172.16.10.1 |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX preset IP start address to 172.16.10.1, and enter the command:S RX PRESET START IP 172.16.10.1return： [SUCCESS]Set receiver preset IP min 172.016.010.001. |

##  Set the RX preset IP end address

|  |
| --- |
| API |
| S RX PRESET END IP [ip] |
| description |
| Set the RX preset IP end address, which should be greater than the start address and within the same network segment. |
| parameter | description |
| ip | IP address，ex. 169.254.20.10 |
| returned value | description |
| [SUCCESS]Set receiver preset IP max 172.016.010.200. | Set the RX preset IP end address to 172.16.10.200 |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX preset IP end address to 172.16.10.200, and enter the commandS RX PRESET END IP 172.16.10.200return： [SUCCESS]Set receiver preset IP max 172.016.010.200. |

##  Set the RX preset netmask

|  |
| --- |
| API |
| S RX PRESET SM [mask] |
| description |
| Set the RX preset netmask. |
| parameter | description |
| mask | netmask，ex. 255.255.0.0 |
| returned value | description |
| [SUCCESS]Set receiver preset netmask 255.255.000.000. | Set the RX preset netmask to 255.255.0.0. |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX preset netmask to 255.255.0.0, and enter the commandS RX PRESET SM 255.255.0.0return：[SUCCESS]Set receiver preset netmask 255.255.000.000. |

##  Set the RX preset gateway

|  |
| --- |
| API |
| S RX PRESET GW [gw]  |
| description |
| Set the RX preset gateway. |
| parameter | description |
| gw | gateway，ex. 169.254.0.1 |
| returned value | description |
| [SUCCESS]Set receiver preset gateway 172.016.010.001. | Set the RX preset gateway to 172.16.10.1. |
| example |
| TELNET Log in to the EVOIPCTL2Set the RX preset gateway to 172.16.10.1, and enter the commandS RX PRESET GW 172.16.10.1return： [SUCCESS]Set receiver preset gateway 172.016.010.001. |

##  Save the RX preset configuration

|  |
| --- |
| API |
| S RX PRESET APPLY |
| description |
| Save the RX preset configuration. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]Set receiver preset IP done. | Save the RX preset configuration done. |
| example |
| TELNET Log in to the EVOIPCTL2Save the RX preset configuration, and enter the commandS RX PRESET APPLYreturn： [SUCCESS]Set receiver preset IP done. |

##  Set the RX custom OSD configuration

|  |
| --- |
| API |
| S RX [rx] CUSTOM OSD [hdl] |
| description |
| Set the RX custom OSD configuration. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| hdl | [1...8]: Custom OSD index |
| returned value | description |
| [SUCCESS]Set receiver 001 select custom OSD 2. | Set receiver 001 select custom OSD 2. |
| example |
| TELNET Log in to the EVOIPCTL2Set receiver 001 select custom OSD 2, and enter the commandS RX 1 CUSTOM OSD 2return： [SUCCESS]Set receiver 001 select custom OSD 2. |

##  Set the RX custom OSD mute

|  |
| --- |
| API |
| S RX [rx] CUSTOM OSD MUTE ON/OFF |
| description |
| Set the RX custom OSD mute. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | Hide custom OSD |
| OFF | Show custom OSD |
| returned value | description |
| [SUCCESS]Show custom OSD on all receivers. | Show custom OSD on all receivers. |
| example |
| TELNET Log in to the EVOIPCTL2Show custom OSD on all receivers, and enter the commandS RX 0 CUSTOM OSD MUTE OFFreturn： [SUCCESS]Show custom OSD on all receivers. |

##  Set the RX cycle play enable

|  |
| --- |
| API |
| S RX [rx] CYCLE PLAY ON/OFF |
| description |
| Set the receiver cycle play enable or disable. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| ON | Cycle play on |
| OFF | Cycle play off |
| returned value | description |
| [SUCCESS]Set receiver 001 cycle play on. | Set receiver 001 cycle play on. |
| example |
| TELNET Log in to the EVOIPCTL2Set receiver 001 cycle play on, enter the commandS RX 1 CYCLE PLAY ONreturn： [SUCCESS]Set receiver 001 cycle play on. |

##  Set the RX cycle play interval

|  |
| --- |
| API |
| S RX [rx] CYCLE PLAY INTERVAL [iv] |
| description |
| Set the receiver cycle play interval. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| iv | [3...999]: Cycle play interval |
| returned value | description |
| [SUCCESS]Set receiver 001 cycle play interval to 10. | Set receiver 001 cycle play interval to 10. |
| example |
| TELNET Log in to the EVOIPCTL2Set receiver 001 cycle play interval to 10, enter the commandS RX 1 CYCLE PLAY INTERVAL 10return： [SUCCESS]Set receiver 001 cycle play interval to 10. |

##  Set the RX cycle play sources

|  |
| --- |
| API |
| S RX [rx] CYCLE PLAY SOURCE [src] |
| description |
| Set the receiver cycle play sources. |
| parameter | description |
| rx | [001... 762]: RX ID0: All RX |
| src | ID of the transmitter, separate with spaces.If it is empty, no RX is selected. |
| returned value | description |
| [SUCCESS]Set receiver 001 cycle play source done. | Set receiver 001 cycle play source done. |
| example |
| TELNET Log in to the EVOIPCTL2Set receiver 001 cycle play source done to TX 1,2,3, enter the commandS RX 1 CYCLE PLAY SOURCE 1,2,3return： [SUCCESS]Set receiver 001 cycle play source done. |

# The EVOIPTX2 (TX) control module API reference

## Set the TX ID

|  |
| --- |
| API |
| S TX [tx ] ID [id] |
| description |
| Set the TX ID. |
| parameter | description |
| tx | [001... 762]: TX ID |
| id | [001... 762]: New ID |
| returned value | description |
| [SUCCESS]Set transmitter 001 ID to 760. | Set the TX 1 ID to 760 |
| [ERROR]Transmitter 100 does not exist. | The TX 100 does not exist |
| example |
| TELNET Log in to the EVOIPCTL2TX 1 ID Set to 760, enter the command:S TX 1 ID 760return:[SUCCESS]Set transmitter 001 ID to 760. |

## Set the TX name

|  |
| --- |
| API |
| S TX [tx ] NAME [name] |
| description |
| Set the TX name. |
| parameter | description |
| tx | [001... 762]: TX ID |
| name | Name, with a maximum length of 16 bytes |
| returned value | description |
| [SUCCESS]Set transmitter 001 name to TEST1. | Set the TX 1 name to be the TEST 1 |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX 1 alias to TEST 1, enter the command:S TX 1 NAME TEST1return:[SUCCESS]Set transmitter 001 name to TEST1. |

## Lock up the TX ARC routing

|  |
| --- |
| API |
| S TX [tx] SWITCH [rx] ARC |
| description |
| Lock in the TX ARC signal routing. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| rx | [001...762]: R X ID0: Unlock |
| returned value | description |
| [SUCCESS]Set transmitter 001 ARC select receiver 003. | Set the TX 1 lock ARC signal routing to RX 3 |
| example |
| TELNET Log in to the EVOIPCTL2input command:S TX 1 SWITCH 3 ARCreturn:[SUCCESS]Set transmitter 001 ARC select receiver 003.input command:S TX 1 SWITCH 0 ARCreturn:[SUCCESS]Set transmitter 001 ARC unselect input. |

## Control the TX power LED flashes

|  |
| --- |
| API |
| S TX [tx] LED ON/OFF |
| description |
| Set the transmitter power LED flashes for 30 seconds or stop flashing. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| ON | The power light flashes for 30 seconds |
| OFF | The power LED is always on. |
| returned value | description |
| [SUCCESS]Flash power LED on transmitter 001 and keep 30 seconds. | Flash the TX 1 power LED |
| example |
| TELNET Log in to the EVOIPCTL2Flash the TX 1 power LED, enter the command:S TX 1 LED ONreturn:[SUCCESS]Flash power LED on transmitter 001 and keep 30 seconds.Stop flashing the power LED, enter the command:S TX 1 LED OFFreturn:[SUCCESS]Disable flash power LED on transmitter 001. |

## Set TX Preview Screenshot

|  |
| --- |
| API |
| S TX [tx ] PREVIEW ONS TX [tx ] PREVIEW PHOTO [ph] |
| description |
| Set TX preview on or off. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| ON | preview on |
| ph | [1...17]: Photo index |
| returned value | description |
| [SUCCESS]Set transmitter 001 preview on. | Set TX 1 preview on. |
| example |
| TELNET Log in to the EVOIPCTL2Set TX 1 preview on, enter the command:S TX 1 PREVIEW ONreturn:[SUCCESS]Set transmitter 001 preview on. |

## Set TX signal mute

|  |
| --- |
| API |
| S TX [tx] SIGNAL MUTE ON/OFF |
| description |
| Set TX signal mute on or off. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| ON | Signal mute on |
| OFF | Signal mute off |
| returned value | description |
| [SUCCESS]Set transmitter 003 signal mute on. | Set TX 3 signal mute on. |
| example |
| TELNET Log in to the EVOIPCTL2Set TX 3 signal mute on, enter the command:S TX 3 SIGNAL MUTE ONreturn:[SUCCESS]Set transmitter 003 signal mute on. |

## Set the TX audio source

|  |
| --- |
| API |
| S TX [tx] AUDIO INPUT HDMI/ANA |
| description |
| Set the TX audio source. |
| parameter | description |
| tx | [001...762]: TX ID0: All TX |
| HDMI | Audio is from the HDMI IN |
| ANA | Audio is from the analog input AUDIO IN L / R |
| returned value | description |
| [SUCCESS]Set transmitter 001 audio select hdmi. | Set the TX 1 audio source to be the HDMI |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX 1 audio source to HDMI, enter the command:S TX 1 AUDIO INPUT HDMIreturn:[SUCCESS]Set transmitter 001 audio select hdmi. |

## Set the TX EDID

|  |
| --- |
| API |
| S TX [tx] EDID DEFAULT [edid] |
| description |
| Set the TX EDID |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| edid | 00: 1080P,Stereo Audio 2.0 SDR01: 1080P,Dolby/DTS 5.1 SDR02: 1080P,HD Audio 7.1 SDR03: 1080I,Stereo Audio 2.0 SDR04: 1080I,Dolby/DTS 5.1 SDR05: 1080I,HD Audio 7.1 SDR06: 3D,Stereo Audio 2.0 SDR07: 3D,Dolby/DTS 5.1 SDR08: 3D,HD Audio 7.1 SDR09: 4K2K30\_444,Stereo Audio 2.0 SDR10: 4K2K30\_444,Dolby/DTS 5.1 SDR11: 4K2K30\_444,HD Audio 7.1 SDR12: 4K2K60\_420,Stereo Audio 2.0 SDR (10/12-bit)13: 4K2K60\_420,Dolby/DTS 5.1 SDR (10/12-bit)14: 4K2K60\_420,HD Audio 7.1 SDR (10/12-bit)15: 4K2K60\_444,Stereo Audio 2.0 SDR (10/12-bit)16: 4K2K60\_444,Dolby/DTS 5.1 SDR (10/12-bit)17: 4K2K60\_444,HD Audio 7.1 SDR (10/12-bit)18: 4K2K60\_444,Stereo Audio 2.0 HDR (10/12-bit)19: 4K2K60\_444,Dolby/DTS 5.1 HDR (10/12-bit)20: 4K2K60\_444,HD Audio 7.1 HDR (10/12-bit)21: DVI 1280x1024@60Hz, Audio None22: DVI 1920x1080@60Hz, Audio None23: DVI 1920x1200@60Hz, Audio None25: User EDID 126: User EDID 2 |
| returned value | description |
| [SUCCESS]Set transmitter 001 edid with default edid 00. | Set TX1 EDID to 1080P, Stereo Audio 2.0 SDR |
| example |
| TELNET Log in to the EVOIPCTL2Set TX1 EDID to 1080P, Stereo Audio 2.0 SDR, enter the command:S TX 1 EDID DEFAULT 0return:[SUCCESS]Set transmitter 001 edid with default edid 00. |

## Set the TX copy of the RX EDID

|  |
| --- |
| API |
| S TX [tx] EDID COPY [rx] |
| description |
| Set the EDID of the TX copy of the RX |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| rx | [001...762]: R X ID |
| returned value | description |
| [SUCCESS]Copy receiver 002 edid to transmitter 001. | Set the EDID of the TX 1 copy of the RX 2 |
| example |
| TELNET Log in to the EVOIPCTL2Set the EDID of the TX 1 copy RX 2, enter the command:S TX 1 EDID COPY 2return:[SUCCESS]Copy receiver 002 edid to transmitter 001. |

## Set the TX IR level

|  |
| --- |
| API |
| S TX [tx ] IR VOL 5V/12V |
| description |
| Set the TX IR level. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| 5V | Use a 5V IR wire line |
| 12V | Use a 12V IR wire line |
| returned value | description |
| [SUCCESS]Set transmitter 001 IR voltage 5V. | Set the TX 1 to use a 5V IR wire |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX 1 to use a 5V IR wire, enter the command:S TX 1 IR VOL 5Vreturn:[SUCCESS]Set transmitter 001 IR voltage 5V. |

##  Set the TX IO level

|  |
| --- |
| API |
| S TX [tx ] IO VOL 5V/12V |
| description |
| Set the TX IO level. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| 5V | The IO level was set at 5V |
| 12V | The IO level was 12V |
| returned value | description |
| [SUCCESS]Set transmitter 001 io voltage 5V. | Set the TX1 IO level to 5V |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX1 IO level to 5V, and enter the command:S TX 1 IO VOL 5Vreturn:[SUCCESS]Set transmitter 001 io voltage 5V. |

##  Set the TX IO direction

|  |
| --- |
| API |
| S TX [tx ] IO 1 DIR IN/OUTS TX [tx ] IO 2 DIR IN/OUT |
| description |
| Set the TX IO direction. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| IN | The IO is set as the input |
| OUT | The IO is set to the output |
| returned value | description |
| [SUCCESS]Set transmitter 001 IO 1 as input port. | Set the TX1 IO 1 as the input |
| example |
| TELNET Log in to the EVOIPCTL2Set TX1 IO 1 as input, enter a command:S TX 1 IO 1 DIR INreturn:[SUCCESS]Set transmitter 001 IO 1 as input port. |

##  Set the TX IO output level

|  |
| --- |
| API |
| S TX [tx ] IO 1 OUT 0/1S TX [tx ] IO 2 OUT 0/1 |
| description |
| Set the TX IO output level, only if the IO direction is set to the output. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| 0 | IO output low level |
| 1 | IO output at a high level |
| returned value | description |
| [SUCCESS]Set transmitter 001 IO 1 output level 0. | Set the TX1 IO 1 output low level |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX1 IO 1 output low level, enter the command:S TX 1 IO 1 OUT 0return:[SUCCESS]Set transmitter 001 IO 1 output level 0. |

##  Set the TX Relay switch

|  |
| --- |
| API |
| S TX [tx ] RELAY 1 OPEN/CLOSES TX [tx ] RELAY 2 OPEN/CLOSE |
| description |
| Set the TX Relay switch. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| OPEN | Relay break |
| CLOSE | Relay close |
| returned value | description |
| [SUCCESS]Set transmitter 001 Relay 1 close. | Set the TX1 Relay 1 to close |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX1 Relay 1 to close, and enter the command:S TX 1 RELAY 1 CLOSEreturn:[SUCCESS]Set transmitter 001 Relay 1 close. |

##  Set the TX CEC / ARC switch

|  |
| --- |
| API |
| S TX [tx ] SAC ARC/CEC/OFF |
| description |
| Switch TX CEC / ARC switch, open the CEC by default. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| ARC | open ARC |
| CEC | open CEC |
| OFF | Close the CEC and the ARC |
| returned value | description |
| [SUCCESS]Set transmitter 001 select ARC, the transmitter will reboot if setting changed. | Set the TX 1 to enable the ARC |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX 1 to turn on the ARC and enter the command:S TX 1 SAC ARCreturn:[SUCCESS]Set transmitter 001 select ARC, the transmitter will reboot if setting changed. |

##  Set the TX network interface

|  |
| --- |
| API |
| S TX [tx ] NET FIBER/COPPER |
| description |
| Set TX network interface, default to RJ45 port. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| FIBER | The network card is in light mode |
| COPPER | The network card is electric mode |
| returned value | description |
| [SUCCESS]Set transmitter 001 network interface to Copper. | Set the TX 1 network card to the electric mode |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX 1 network card to the electric mode, enter the command:S TX 1 NET COPPERreturn:[SUCCESS]Set transmitter 001 network interface to Copper. |

##  Send CEC data to TX (Guest mode)

|  |
| --- |
| API |
| S TX [tx ] CEC SEND xx xx |
| description |
| Send CEC data to TX (Guest mode) |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| xx xx | 16 decimal CEC instruction code |
| returned value | description |
| [SUCCESS]Send CEC data to transmitter 001 done. | The CEC instruction was sent successfully |
| example |
| TELNET Log in to the EVOIPCTL2input command:S TX 1 CEC SEND 4F 36return:[SUCCESS]Send CEC data to transmitter 001 done. |

##  Send IR data to TX (Guest mode)

|  |
| --- |
| API |
| S TX [tx ] IR SEND xx xx xx xx |
| description |
| Send IR data to TX (Guest mode) |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| xx xx xx xx | 16 decimal IR instruction code, support CCF format |
| returned value | description |
| [SUCCESS]Send IR data to transmitter 001 done. | Send the IR command successfully |
| example |
| TELNET Log in to the CTL100ALinput command:S TX 1 IR SEND 0000006700000022015600ab001600600016006000160060001600160016006000160016001600600016001600160016001600160016001600160060001600160016006000160016001600600016006000160016001600600016001600160016001600600016006000160060001600160016006000160016001600600016006000160016001600160016001600160593return:[SUCCESS]Send IR data to transmitter 001 done. |

##  Set the TX serial port parameters

|  |
| --- |
| API |
| S TX [tx ] GUEST ON/OFF BR [br] BIT [bit] |
| description |
| Set the TX serial port parameters |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| ON | Open the serial port to Guest mode |
| OFF | Close the serial port, Guest mode |
| br | [0:300 1:600 2:1200 3:2400 4:4800 5:9600][6:19200 7:38400 8:57600 9:115200] |
| bit | Data Bits + Parity + Stop Bitsexample: 8n1Data Bits=[5...8], Parity=[n o e], Stop Bits=[1..2] |
| returned value | description |
| [SUCCESS]Set serial guest mode config done. | The TX serial port parameter was set successfully |
| example |
| TELNET Log in to the EVOIPCTL2Set TX 1 open serial port Guest mode, port rate 115200,8-bit data bit, no check bit, 1-bit stop bit, input command:S TX 1 GUEST ON BR 9 BIT 8N1return:[SUCCESS]Set serial guest mode config done. |

##  Start the TX serial port Guest mode

|  |
| --- |
| API |
| S TX [tx ] GUEST |
| description |
| Start TX serial port Guest mode and is only valid if the serial port parameter is set to GUEST ON |
| parameter | description |
| tx | [001... 762]: TX ID |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the CTL100ALStart the TX 1 serial port Guest mode and enter the command:S TX 1 GUEST |

##  Exit the TX serial port Guest mode

|  |
| --- |
| API |
| EXITGUEST |
| description |
| After starting the TX serial port Guest mode, send the EXITGUEST to exit the Guest mode |
| parameter | description |
|  |  |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the EVOIPCTL2Exit the TX 1 serial port Guest mode and enter the command:EXITGUEST |

##  Set the TX IP mode

|  |
| --- |
| API |
| S TX [tx ] IPMODE DHCP/STATIC |
| description |
| Set the IP mode for the TX |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| DHCP | Dynamic IP |
| STATIC | Static IP |
| returned value | description |
| [SUCCESS]Set transmitter 001 ip mode to dhcp.Use "S TX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart TX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set TX 1 to Dynamic IP mode, enter the command:S TX 1 IPMODE DHCPreturn:[SUCCESS]Set transmitter 001 ip mode to dhcp.Use "S TX xx NETWORK REBOOT" command to apply new config!!! |

##  Set the TX IP address

|  |
| --- |
| API |
| S TX [tx ] STATIC IP [ip] |
| description |
| Set the IP address for TX, only valid when IPMODE is STATIC. |
| parameter | description |
| tx | [001... 762]: TX ID |
| ip | IP addresses, such as 169.254.10.10 |
| returned value | description |
| [SUCCESS]Set transmitter 001 IP address to 169.254.020.006.Use "S TX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart TX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set the IP of TX 1 to 169.254.20.6, enter the command:S TX 1 STATIC IP 169.254.20.6return:[SUCCESS]Set transmitter 001 IP address to 169.254.020.006.Use "S TX xx NETWORK REBOOT" command to apply new config!!! |

##  Set the TX subnet mask

|  |
| --- |
| API |
| S TX [tx ] STATIC MASK [mask] |
| description |
| Set the subnet mask for TX, only valid when IPMODE is STATIC. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| mask | Subnet mask, such as 255.255.0.0 |
| returned value | description |
| [SUCCESS]Set transmitter 001 subnet mask address to 255.255.000.000.Use "S TX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart TX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set the subnet mask of TX 1 to 255.255.0.0, enter the command:S TX 1 STATIC MASK 255.255.0.0return:[SUCCESS]Set transmitter 001 subnet mask address to 255.255.000.000.Use "S TX xx NETWORK REBOOT" command to apply new config!!! |

##  Set the TX gateway address

|  |
| --- |
| API |
| S TX [tx ] STATIC GATEWAY [gw] |
| description |
| Set the gateway address of TX, only valid when IPMODE is STATIC. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| gw | Gateway address, such as 169.254.0.1 |
| returned value | description |
| [SUCCESS]Set transmitter 001 gateway address to 169.254.000.001.Use "S TX xx NETWORK REBOOT" command to apply new config!!! | The setting is successful and needs to restart TX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Set the gateway address of TX to 169.254.0.1, enter the command:S TX 1 STATIC GATEWAY 169.254.0.1return:[SUCCESS]Set transmitter 001 gateway address to 169.254.000.001.Use "S TX xx NETWORK REBOOT" command to apply new config!!! |

##  Set the TX network card to restart

|  |
| --- |
| API |
| S TX [tx ] NETWORK REBOOT |
| description |
| Set the network restart for TX |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| returned value | description |
| [SUCCESS]Set transmitter 001 reboot and apply all the new config. | The setting is successful and needs to restart TX to take effect |
| example |
| TELNET Log in to the EVOIPCTL2Restart the TX 1 network card and enter the command:S TX 1 NETWORK REBOOTreturn:[SUCCESS]Set transmitter 001 reboot and apply all the new config. |

##

## Remove the TX from the system

|  |
| --- |
| API |
| S TX [tx ] DELETE |
| description |
| delete TX |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| returned value | description |
| [SUCCESS]Delete transmitter 001 done. | The TX 1 was deleted successfully |
| example |
| TELNET Log in to the EVOIPCTL2Delete TX 1, enter the command:S TX 1 DELETEreturn:[SUCCESS]Delete transmitter 001 done. |

##  Restart TX

|  |
| --- |
| API |
| S TX [tx ] REBOOT |
| description |
| restart TX |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| returned value | description |
| [SUCCESS]Set transmitter 001 reboot and apply all the new config. | Restart success |
| example |
| TELNET Log in to the EVOIPCTL2Restart the TX 1, and enter the command:S TX 1 REBOOTreturn:[SUCCESS]Set transmitter 001 reboot and apply all the new config. |

##  Reset TX

|  |
| --- |
| API |
| S TX [tx ] RESET |
| description |
| reset TX |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| returned value | description |
| [SUCCESS]Set transmitter 001 reset to default setting. | The reset was successful |
| example |
| TELNET Log in to the EVOIPCTL2Reset the TX 1, enter the command:S TX 1 RESETreturn:[SUCCESS]Set transmitter 001 reset to default setting. |

##  Gets the TX status information

|  |
| --- |
| API |
| R TX [tx ] STATUS |
| description |
| To obtain the status information of TX, to obtain the status information of all TX without the parameter tx, namely, R TX STATUS is the same as R TX 0 STATUS. |
| parameter | description |
| tx | [001... 762]: TX ID0: All TX |
| returned value | description |
| Returns the TX status information | Include the version number, network information and other states |
| example |
| TELNET Log in to the EVOIPCTL2Get the TX 1 status information and enter the command:R TX 1 STATUSreturn:================================================================IP Control Box CTL100AL Transmitter InfoFW Version: 2.00.16ID Type Net Sig Ver EDID Aud MCast Name001 Gen 2 On On 3.01.05 CP002 HDMI On TEST1>>Fix Arc000>>Sel Arc000>>SAC SGEn/Br/BitARC Off /9 /8n1>>Pin IOVOL/IODIR/IODAT IRVOL RLY PHY(1) 12 Out 0 12 Open Copper(2) 12 Out 0 Open>>IM MACStatic 6C:DF:FB:00:F3:3F>>IP GW SM169.254.010.001 000.000.000.000 255.255.000.000================================================================ |

##  Set the TX preset IP mode

|  |
| --- |
| API |
| S TX PRESET IPMODE [mode] |
| description |
| Set the preset IP mode for TX, and assign TX's IP based on this preset mode when adding TX to the system. |
| parameter | description |
| mode | 0:AUTOIP 1:DHCP 2:STATIC |
| returned value | description |
| [SUCCESS]Set transmitter preset IP to static mode. | Successfully set TX preset IP mode to static. |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX preset IP mode to static, and enter the command:S TX PRESET IPMODE 2return： [SUCCESS]Set transmitter preset IP to static mode. |

##  Set the TX preset IP start address

|  |
| --- |
| API |
| S TX PRESET START IP [ip] |
| description |
| Set the TX preset IP start address. |
| parameter | description |
| ip | IP address，ex.169.254.10.10 |
| returned value | description |
| [SUCCESS]Set transmitter preset IP min 172.016.010.001. | Set the TX preset IP start address to 172.16.10.1 |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX preset IP start address to 172.16.10.1, and enter the command:S TX PRESET START IP 172.16.10.1return： [SUCCESS]Set transmitter preset IP min 172.016.010.001. |

##  Set the TX preset IP end address

|  |
| --- |
| API |
| S TX PRESET END IP [ip] |
| description |
| Set the TX preset IP end address, which should be greater than the start address and within the same network segment. |
| parameter | description |
| ip | IP address，ex. 169.254.20.10 |
| returned value | description |
| [SUCCESS]Set transmitter preset IP max 172.016.010.200. | Set the TX preset IP end address to 172.16.10.200 |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX preset IP end address to 172.16.10.200, and enter the commandS TX PRESET END IP 172.16.10.200return： [SUCCESS]Set transmitter preset IP max 172.016.010.200. |

##  Set the TX preset netmask

|  |
| --- |
| API |
| S TX PRESET SM [mask] |
| description |
| Set the TX preset netmask. |
| parameter | description |
| mask | netmask，ex. 255.255.0.0 |
| returned value | description |
| [SUCCESS]Set transmitter preset netmask 255.255.000.000. | Set the TX preset netmask to 255.255.0.0. |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX preset netmask to 255.255.0.0, and enter the commandS TX PRESET SM 255.255.0.0return：[SUCCESS]Set transmitter preset netmask 255.255.000.000. |

##  Set the TX preset gateway

|  |
| --- |
| API |
| S TX PRESET GW [gw]  |
| description |
| Set the TX preset gateway. |
| parameter | description |
| gw | gateway，ex. 169.254.0.1 |
| returned value | description |
| [SUCCESS]Set transmitter preset gateway 172.016.010.001. | Set the TX preset gateway to 172.16.10.1. |
| example |
| TELNET Log in to the EVOIPCTL2Set the TX preset gateway to 172.16.10.1, and enter the commandS TX PRESET GW 172.16.10.1return： [SUCCESS]Set transmitter preset gateway 172.016.010.001. |

##  Save the TX preset configuration

|  |
| --- |
| API |
| S TX PRESET APPLY |
| description |
| Save the TX preset configuration. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]Set transmitter preset IP done. | Save the TX preset configuration done. |
| example |
| TELNET Log in to the EVOIPCTL2Save the TX preset configuration, and enter the commandS TX PRESET APPLYreturn： [SUCCESS]Set transmitter preset IP done. |

# Video Wall API reference

## Create video wall

|  |
| --- |
| API |
| CRE WALL |
| description |
| Create a new video wall. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]Create video wall handle 5. | Create a new video wall with handle 5. |
| example |
| TELNET Log in to the EVOIPCTL2Create a new video wall, enter the command:CRE WALLreturn:[SUCCESS]Create video wall handle 5. |

## Delete video wall

|  |
| --- |
| API |
| DEL WALL [hdl] |
| description |
| Delete video wall. |
| parameter | description |
| hdl | [01...09]: Video wall handle0: All video walls |
| returned value | description |
| [SUCCESS]Delete video wall 6. | Delete video wall 6. |
| example |
| TELNET Log in to the EVOIPCTL2Delete video wall 6, enter the command:DEL WALL 6return:[SUCCESS]Delete video wall 6. |

## Set the name of the video wall

|  |
| --- |
| API |
| S WALL [hdl] NAME [name] |
| description |
| Set the name of the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| name | Max 16 characters |
| returned value | description |
| [SUCCESS]Rename video wall 2 to abc. | [SUCCESS]Rename video wall 2 to abc. |
| example |
| TELNET Log in to the EVOIPCTL2Rename video wall 2 to abc, enter the command:S WALL 2 NAME abcreturn:[SUCCESS]Rename video wall 2 to abc. |

## Set the columns and rows of the video wall

|  |
| --- |
| API |
| S WALL [hdl] C [c] R [r] |
| description |
| Set the columns and rows of the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| c | [01...25]: Number of columns in the video wall |
| r | [01...25]: Number of rows in the video wall |
| returned value | description |
| [SUCCESS]Set video wall 2 columns and rows to 3X3. | Set video wall 2 columns and rows to 3X3. |
| example |
| TELNET Log in to the EVOIPCTL2Set video wall 2 columns and rows to 3X3, enter the command:S WALL 2 C 3 R 3return:[SUCCESS]Set video wall 2 columns and rows to 3X3. |

## Set the receiver of the video wall

|  |
| --- |
| API |
| S WALL [hdl] RX [rx] H [h] V [v] |
| description |
| Set the receiver of the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| h | [01...25]: Horizontal position in the video wall |
| v | [01...25]: Vertical position in the video wall |
| returned value | description |
| [SUCCESS]Assign receiver 002 to video wall 2. | Assign receiver 002 to video wall 2. |
| example |
| TELNET Log in to the EVOIPCTL2Assign receiver 002 to video wall 2 position (1,2), enter the command:S WALL 2 RX 2 H 1 V 2return:[SUCCESS]Assign receiver 002 to video wall 2. |

## Set the window of the video wall

|  |
| --- |
| API |
| S WALL [hdl] WIN [win] H [h] V [v] |
| description |
| Set the window of the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| win | [A...G]: Window name |
| h | [01...25]: Horizontal position in the video wall |
| v | [01...25]: Vertical position in the video wall |
| returned value | description |
| [SUCCESS]Done. | Set the window done. |
| example |
| TELNET Log in to the EVOIPCTL2Set video wall 2 position (1,2) to window B, enter the command:S WALL 2 WIN B H 1 V 2return:[SUCCESS]Done. |

## Set the source of the video wall window

|  |
| --- |
| API |
| S WALL [hdl] WIN [win] SOURCE [tx] |
| description |
| Set the source of the video wall window. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| win | [A...G]: Window name |
| tx | [001...n]: One transmitter |
| returned value | description |
| [SUCCESS]Done. | Set the source done. |
| example |
| TELNET Log in to the EVOIPCTL2Set the source of the video wall 1 window A to TX 4, enter the command:S WALL 1 WIN A SOURCE 4return:[SUCCESS]Done. |

## Set the width bezel of the video wall

|  |
| --- |
| API |
| S WALL [hdl] H [h] V [v] WIDTH BEZEL [b] |
| description |
| Set the width bezel of the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| h | [01...25]: Horizontal position in the video wall |
| v | [01...25]: Vertical position in the video wall |
| b | [0...500]: Bezel value |
| returned value | description |
| [SUCCESS]Done. | Set the bezel done. |
| example |
| TELNET Log in to the EVOIPCTL2Set the width bezel of the video wall 1 position (1,1) to 20, enter the command:S WALL 1 H 1 V 1 WIDTH BEZEL 20return:[SUCCESS]Done. |

## Set the height bezel of the video wall

|  |
| --- |
| API |
| S WALL [hdl] H [h] V [v] HEIGHT BEZEL [b] |
| description |
| Set the height bezel of the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| h | [01...25]: Horizontal position in the video wall |
| v | [01...25]: Vertical position in the video wall |
| b | [0...500]: Bezel value |
| returned value | description |
| [SUCCESS]Done. | Set the bezel done. |
| example |
| TELNET Log in to the EVOIPCTL2Set the height bezel of the video wall 1 position (1,1) to 20, enter the command:S WALL 1 H 1 V 1 HEIGHT BEZEL 20return:[SUCCESS]Done. |

##  Set the video wall show OSD or hide OSD

|  |
| --- |
| API |
| S WALL [hdl] OSD ON/OFF |
| description |
| Set the video wall show OSD or hide OSD. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| ON | Show OSD |
| OFF | Hide OSD |
| returned value | description |
| [SUCCESS]Show video wall 1 OSD done. | Show video wall 1 OSD. |
| example |
| TELNET Log in to the EVOIPCTL2Show video wall 1 OSD, enter the command:S WALL 1 OSD ONreturn:[SUCCESS]Show video wall 1 OSD done. |

##  Activate the video wall

|  |
| --- |
| API |
| S WALL [hdl] APPLY |
| description |
| Activate the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| returned value | description |
| [SUCCESS]Apply video wall 1 done. | Activate video wall 1. |
| example |
| TELNET Log in to the EVOIPCTL2Activate video wall 1, enter the command:S WALL 1 APPLYreturn:[SUCCESS]Apply video wall 1 done. |

##  Deactivate the video wall

|  |
| --- |
| API |
| S WALL [hdl] DEACT |
| description |
| Deactivate the video wall. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| returned value | description |
| [SUCCESS]Deactivate video wall 1 done. | Deactivate video wall 1. |
| example |
| TELNET Log in to the EVOIPCTL2Deactivate video wall 1, enter the command:S WALL 1 DEACTreturn:[SUCCESS]Deactivate video wall 1 done. |

##  Get the video wall status

|  |
| --- |
| API |
| R WALL [hdl] STATUS |
| description |
| Get the video wall status. |
| parameter | description |
| hdl | [01...09]: Video wall ID |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the EVOIPCTL2Get the video wall status, enter the command:R WALL 0 STATUSreturn:================================================================ EVO-IP Video Wall Info FW Version: 1.10.27VW Col Row Name01 02 01 VW 1 RX 001 002 Window Source Screen A 001 H1V1 B 002 H2V1VW Col Row Name03 03 02 VW 3 RX --- --- --- --- --- ---================================================================ |

# Preset API reference

## Add receiver to the preset

|  |
| --- |
| API |
| ADD PRESET [prs] RX [rx] SOURCE [tx] |
| description |
| Add receiver to the preset. |
| parameter | description |
| prs | [01...10]: Preset ID |
| rx | [001... 762]: RX ID |
| tx | [001... 762]: TX ID |
| returned value | description |
| [SUCCESS]Receiver 002 added to preset 1. | Add receiver 2 to preset 1 done. |
| example |
| TELNET Log in to the EVOIPCTL2Add receiver 2 to preset 1, enter the command:ADD PRESET 1 RX 2 SOURCE 1return:[SUCCESS]Receiver 002 added to preset 1. |

## Add video wall to the preset

|  |
| --- |
| API |
| ADD PRESET [prs] WALL [hdl] |
| description |
| Add video wall to the preset. |
| parameter | description |
| prs | [01...10]: Preset ID |
| hdl | [01...09]: Video wall ID |
| returned value | description |
| [SUCCESS]Video wall 1 added to preset 1. | Add video wall 1 to preset 1 done. |
| example |
| TELNET Log in to the EVOIPCTL2Add video wall 1 to preset 1, enter the command:ADD PRESET 1 WALL 1return:[SUCCESS]Video wall 1 added to preset 1. |

## Remove receiver from the preset

|  |
| --- |
| API |
| DEL PRESET [prs] RX [rx] |
| description |
| Remove receiver from the preset. |
| parameter | description |
| prs | [01...10]: Preset ID |
| rx | [001... 762]: RX ID |
| returned value | description |
| [SUCCESS]Receiver 002 removed from preset 1. | Remove receiver 2 from preset 1 done. |
| example |
| TELNET Log in to the EVOIPCTL2Remove receiver 2 from preset 1, enter the command:DEL PRESET 1 RX 2return:[SUCCESS]Receiver 002 removed from preset 1. |

## Remove video wall from the preset

|  |
| --- |
| API |
| DEL PRESET [prs] WALL [hdl] |
| description |
| Remove video wall to the preset. |
| parameter | description |
| prs | [01...10]: Preset ID |
| hdl | [01...09]: Video wall ID |
| returned value | description |
| [SUCCESS]Video wall 1 removed to preset 1. | Remove video wall 1 to preset 1 done. |
| example |
| TELNET Log in to the EVOIPCTL2Remove video wall 1 to preset 1, enter the command:DEL PRESET 1 WALL 1return:[SUCCESS]Video wall 1 removed to preset 1. |

## Activate the preset

|  |
| --- |
| API |
| APPLY PRESET [prs] |
| description |
| Activate the preset. |
| parameter | description |
| prs | [01...10]: Preset ID |
| returned value | description |
| [SUCCESS]Apply preset 1 done. | Activate preset 1 done. |
| example |
| TELNET Log in to the EVOIPCTL2Activate preset 1, enter the command:APPLY PRESET 1return:[SUCCESS]Apply preset 1 done. |

# OSD module API reference

## Set the name of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] NAME [name] |
| description |
| Set the name of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| name | Name, with a maximum length of 16 bytes |
| returned value | description |
| [SUCCESS]Set custom OSD 1 name:Test. | Set the name of the custom OSD 1 to Test. |
| example |
| TELNET Log in to the EVOIPCTL2Set the name of the custom OSD 1 to Test, and enter the command:S CUSTOM OSD 1 NAME Testreturn:[SUCCESS]Set custom OSD 1 name:Test. |

## Set the type of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] TYPE MSG/PHOTO/ALBUM |
| description |
| Set the type of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| MSG | Message type |
| PHOTO | Single image type |
| ALBUM | Album type |
| returned value | description |
| [SUCCESS]Set custom OSD 1 type to message. | Set custom OSD 1 type to message. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 type to message, and enter the command:S CUSTOM OSD 1 TYPE MSGreturn:[SUCCESS]Set custom OSD 1 type to message. |

## Set the transparency of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] TRANSPARENCY [tr] |
| description |
| Set the transparency of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| tr | [0...100]: Transparency  |
| returned value | description |
| [SUCCESS]Set custom OSD 1 transparency to 50. | Set custom OSD 1 transparency to 50. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 transparency to 50, and enter the command:S CUSTOM OSD 1 TRANSPARENCY 50return:[SUCCESS]Set custom OSD 1 transparency to 50. |

## Set the resolution of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] RESOLUTION [res] |
| description |
| Set the resolution of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| res | 0: 640x480@601: 1920x1080@602: 3840x2160@60 |
| returned value | description |
| [SUCCESS]Set custom OSD 1 resolution to 1920x1080@60. | Set custom OSD 1 resolution to 1920x1080@60. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 resolution to 1920x1080@60, and enter the command:S CUSTOM OSD 1 RESOLUTION 1return:[SUCCESS]Set custom OSD 1 resolution to 1920x1080@60. |

## Set the font color of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] MSG FONT COLOR [color] |
| description |
| Set the font color of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| color | 0: white1: yellow2: red3: green4: blue |
| returned value | description |
| [SUCCESS]Set custom OSD 1 font color to red. | Set custom OSD 1 font color to red. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 font color to red, and enter the command:S CUSTOM OSD 1 MSG FONT COLOR 2return:[SUCCESS]Set custom OSD 1 font color to red. |

## Set the font size of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] MSG FONT SIZE [size] |
| description |
| Set the font size of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| size | [10...80]: Font size |
| returned value | description |
| [SUCCESS]Set custom OSD 1 message font size to 40. | Set custom OSD 1 message font size to 40. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 message font size to 40, and enter the command:S CUSTOM OSD 1 MSG FONT SIZE 40return:[SUCCESS]Set custom OSD 1 message font size to 40. |

## Set the message X coordinate of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] MSG X START [xx] |
| description |
| Set the message X coordinate of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| xx | [0...655]: X coordinate |
| returned value | description |
| [SUCCESS]Set custom OSD 1 message X coordinate to 50. | Set custom OSD 1 message X coordinate to 50. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 message X coordinate to 50, and enter the command:S CUSTOM OSD 1 MSG X START 50return:[SUCCESS]Set custom OSD 1 message X coordinate to 50. |

## Set the message Y coordinate of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] MSG Y START [xx] |
| description |
| Set the message Y coordinate of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| yy | [0...655]: Y coordinate |
| returned value | description |
| [SUCCESS]Set custom OSD 1 message Y coordinate to 50. | Set custom OSD 1 message Y coordinate to 50. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 message Y coordinate to 50, and enter the command:S CUSTOM OSD 1 MSG Y START 50return:[SUCCESS]Set custom OSD 1 message Y coordinate to 50. |

## Set the message data of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] MSG DATA [data] |
| description |
| Set the message data of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| data | message data, max 36 Characters |
| returned value | description |
| [SUCCESS]Set custom OSD 1 message data done. | Set custom OSD 1 message data done. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 1 message data done, and enter the command:S CUSTOM OSD 1 MSG DATA 1234return:[SUCCESS]Set custom OSD 1 message data done. |

##  Set the image cycle play type of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] IMAGE CYCLE PLAY TYPE ORDER/RANDOM |
| description |
| Set the image cycle play type of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| ORDER | Sequential cycle play |
| RANDOM | Random cycle play |
| returned value | description |
| [SUCCESS]Set custom OSD 2 image cycle play type to order. | Set custom OSD 2 image cycle play type to order. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 2 image cycle play type to order, and enter the command:S CUSTOM OSD 2 IMAGE CYCLE PLAY TYPE ORDERreturn:[SUCCESS]Set custom OSD 2 image cycle play type to order. |

##  Set the image cycle play interval of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] IMAGE CYCLE PLAY INTERVAL [iv] |
| description |
| Set the image cycle play interval of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| iv | [0...999]: Cycle play interval |
| returned value | description |
| [SUCCESS]Set custom OSD 2 image cycle play interval to 10. | Set custom OSD 2 image cycle play interval to 10. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 2 image cycle play interval to 10, and enter the command:S CUSTOM OSD 2 IMAGE CYCLE PLAY INTERVAL 10return:[SUCCESS]Set custom OSD 2 image cycle play interval to 10. |

##  Set the image files of the custom OSD

|  |
| --- |
| API |
| S CUSTOM OSD [hdl] IMAGE DATA [file] |
| description |
| Set the image files of the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| file | Full image file name, separate with commas. |
| returned value | description |
| [SUCCESS]Set custom OSD 2 image data done. | Set custom OSD 2 image data done. |
| example |
| TELNET Log in to the EVOIPCTL2Set custom OSD 2 image data, and enter the command:S CUSTOM OSD 2 IMAGE DATA 1.jpg,2.jpgreturn:[SUCCESS]Set custom OSD 2 image data done. |

##  Activate the custom OSD

|  |
| --- |
| API |
| APPLY CUSTOM OSD [hdl] |
| description |
| Activate the custom OSD. |
| parameter | description |
| hdl | [01...08]: OSD index |
| returned value | description |
| [SUCCESS]Apply custom OSD 1 done. | Apply custom OSD 1 done. |
| example |
| TELNET Log in to the EVOIPCTL2Apply custom OSD 1, and enter the command:APPLY CUSTOM OSD 1return:[SUCCESS]Apply custom OSD 1 done. |

##  Set the display information of the information OSD

|  |
| --- |
| API |
| S INFO OSD SHOW [info] |
| description |
| Set the display information of the information OSD. |
| parameter | description |
| info | 0: None1: RX name2: RX mac3: RX ip4: Group ID5: VW nameseparate with commas. |
| returned value | description |
| [SUCCESS]Set information OSD display information done. | Set information OSD display information done. |
| example |
| TELNET Log in to the EVOIPCTL2Set information OSD display information, and enter the command:S INFO OSD SHOW 1,2,3return:[SUCCESS]Set information OSD display information done. |

##  Set the transparency of the information OSD

|  |
| --- |
| API |
| S INFO OSD TRANSPARENCY [tr] |
| description |
| Set the transparency of the information OSD. |
| parameter | description |
| tr | [0...100]: Transparency |
| returned value | description |
| [SUCCESS]Set information OSD transparency to 0. | Set information OSD transparency to 0. |
| example |
| TELNET Log in to the EVOIPCTL2Set information OSD transparency to 0, and enter the command:S INFO OSD TRANSPARENCY 0return:[SUCCESS]Set information OSD transparency to 0. |

##  Set the font color of the information OSD

|  |
| --- |
| API |
| S INFO OSD FONT COLOR [color] |
| description |
| Set the font color of the information OSD. |
| parameter | description |
| color | 0: white1: yellow2: red3: green4: blue |
| returned value | description |
| [SUCCESS]Set information OSD font color to green. | Set information OSD font color to green. |
| example |
| TELNET Log in to the EVOIPCTL2Set information OSD font color to green, and enter the command:S INFO OSD FONT COLOR 3return:[SUCCESS]Set information OSD font color to green. |

##  Set the display time of the information OSD

|  |
| --- |
| API |
| S INFO OSD TIMEOUT [tt] |
| description |
| Set the display time of the information OSD. |
| parameter | description |
| tt | [1...30]: Display time |
| returned value | description |
| [SUCCESS]Set information OSD display time to 3. | Set information OSD display time to 3. |
| example |
| TELNET Log in to the EVOIPCTL2Set information OSD display time to 3, and enter the command:S INFO OSD TIMEOUT 3return:[SUCCESS]Set information OSD display time to 3. |

##  Activate the information OSD

|  |
| --- |
| API |
| APPLY INFO OSD |
| description |
| Activate the information OSD. |
| parameter | description |
| returned value | description |
| [SUCCESS]Apply information OSD done. | Apply information OSD done. |
| example |
| TELNET Log in to the EVOIPCTL2Apply information OSD, and enter the command:APPLY INFO OSDreturn:[SUCCESS]Apply information OSD done. |

# Schedule module API reference

## Create schedule

|  |
| --- |
| API |
| CRE SCHEDULE |
| description |
| Create a new schedule. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]Create schedule handle 4. | Create a new schedule with handle 4. |
| example |
| TELNET Log in to the EVOIPCTL2Create a new schedule, and enter the command:CRE SCHEDULEreturn:[SUCCESS]Create schedule handle 4. |

## Delete schedule

|  |
| --- |
| API |
| DEL SCHEDULE [hdl] |
| description |
| Delete schedule. |
| parameter | description |
| hdl | [01...80]: Schedule handle0: All schedules |
| returned value | description |
| [SUCCESS]Delete schedules 4. | Delete schedules 4. |
| example |
| TELNET Log in to the EVOIPCTL2Delete schedules 4, and enter the command:DEL SCHEDULE 4return:[SUCCESS]Delete schedules 4. |

## Set schedule type

|  |
| --- |
| API |
| S SCHEDULE [hdl] TYPE TX [tx]S SCHEDULE [hdl] TYPE RX [rx]S SCHEDULE [hdl] TYPE PRESET [prs] |
| description |
| Set the schedule type. |
| parameter | description |
| hdl | [01...80]: Schedule handle |
| tx | [001... 762]: TX ID |
| rx | [001... 762]: RX ID |
| prs | [01...10]: Preset ID |
| returned value | description |
| [SUCCESS]Set transmitter 002 to schedules 1. | Set transmitter 002 to schedules 1. |
| example |
| TELNET Log in to the EVOIPCTL2Set transmitter 002 to schedules 1, and enter the command:S SCHEDULE 1 TYPE TX 2return:[SUCCESS]Set transmitter 002 to schedules 1. |

## Set schedule effective date

|  |
| --- |
| API |
| S SCHEDULE [hdl] DATE S [dt] E [dt]S SCHEDULE [hdl] DATE S [dt] E [dt] W [dw] |
| description |
| Set the schedule effective date. |
| parameter | description |
| hdl | [01...80]: Schedule handle |
| dt | [YYYY-MM-DD]: Date, example: 2023-10-10 |
| dw | [0:Sun 1:Mon 2:Tue 3:Wed 4:Thu 5:Fri 6:Sat]: Day of week, separate with commas.Default Select All (no 'W'). |
| returned value | description |
| [SUCCESS]Set schedules 1 date from 2024-06-30 00:00:00 to to 2024-09-30 23:59:59. | Set schedules 1 date from 2024-06-30 to 2024-09-30. |
| example |
| TELNET Log in to the EVOIPCTL2Set schedules 1 date from 2024-06-30 to 2024-09-30 and valid on weekdays, and enter the command:S SCHEDULE 1 DATE S 2024-6-30 E 2024-9-30 W 1,2,3,4,5return:[SUCCESS]Set schedules 1 date from 2024-06-30 00:00:00 to to 2024-09-30 23:59:59. |

## Set schedule trigger time

|  |
| --- |
| API |
| S SCHEDULE [hdl] TIME H [hh] M [mm] |
| description |
| Set the schedule trigger time. |
| parameter | description |
| hdl | [01...80]: Schedule handle |
| hh | [0...23]: Hour |
| mm | [0...59]: Minute |
| returned value | description |
| [SUCCESS]Set schedules 1 time to 9:30. | Set schedules 1 time to 9:30. |
| example |
| TELNET Log in to the EVOIPCTL2Set schedules 1 time to 9:30, and enter the command:S SCHEDULE 1 TIME H 09 M 30return:[SUCCESS]Set schedules 1 time to 9:30. |

## Set schedule action

|  |
| --- |
| API |
| S SCHEDULE [hdl] ACTION TYPE [type] DATA [data] |
| description |
| Set the schedule action. |
| parameter | description |
| hdl | [01...80]: Schedule handle |
| type | 0: Mute1: Resume2: Reboot3: ReMapping4: CyclePlayOn5: CyclePlayOff6: Play |
| data | ID of the transmitter or receiver, separate with spaces.(Only used for action type 3) |
| returned value | description |
| [SUCCESS]Set schedules 1 action type to mute. | Set schedules 1 action type to mute. |
| example |
| TELNET Log in to the EVOIPCTL2Set schedules 1 action type to mute, enter the command:S SCHEDULE 1 ACTION TYPE 0return:[SUCCESS]Set schedules 1 action type to mute.Set schedules 1 action type to reMapping, and mapping to TX 2, enter the command:S SCHEDULE 1 ACTION TYPE 3 DATA 2return:[SUCCESS]Set schedules 1 action to reMapping. |

## Get the schedule status

|  |
| --- |
| API |
| R SCHEDULE [hdl] STATUS |
| description |
| Get the schedule status. |
| parameter | description |
| hdl | [01...80]: Schedule handle0: All events |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the CTL100ALGet all schedules status, enter the command:R SCHEDULE 0 STATUSreturn:================================================================ EVO-IP Schedule Info FW Version: 1.10.26ID Type Name Action001 RX RX\_6CDFFB085B0D reMapping >>Start Date End Date Time 2024-07-19 2024-07-19 08:55ID Type Name Action002 TX TX\_6CDFFB085B08  >>Start Date End Date Time 2024-06-30 2024-09-30 09:30================================================================ |

# Events API reference

## Create event

|  |
| --- |
| API |
| CRE EVENT |
| description |
| Create a new event. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]Create event handle 3. | Create a new event with handle 4. |
| example |
| TELNET Log in to the EVOIPCTL2Create a new event, and enter the command:CRE EVENTreturn:[SUCCESS]Create event handle 3. |

## Delete event

|  |
| --- |
| API |
| DEL EVENT [hdl] |
| description |
| Delete event. |
| parameter | description |
| hdl | [01...80]: Event handle0: All events |
| returned value | description |
| [SUCCESS]Delete event 3. | Delete event 3. |
| example |
| TELNET Log in to the EVOIPCTL2Delete event 3, and enter the command:DEL EVENT 3return:[SUCCESS]Delete event 3. |

## Create event email group

|  |
| --- |
| API |
| CRE EVENT EMAIL GROUP [gname] DATA [data] |
| description |
| Create event email group. |
| parameter | description |
| gname | Group name, max 32 characters |
| data | E-MAIL address, separate with commas |
| returned value | description |
| [SUCCESS]Create event email group Jason. | Create event email group Jason. |
| example |
| TELNET Log in to the EVOIPCTL2Create event email group Jason, and enter the command:CRE EVENT EMAIL GROUP Jason DATA jason.data@vanco1.com,example1@email.comreturn:[SUCCESS]Create event email group Jason. |

## Delete event email group

|  |
| --- |
| API |
| DEL EVENT EMAIL GROUP [gname] |
| description |
| Delete event email group. |
| parameter | description |
| gname | Group name, max 32 characters |
| returned value | description |
| [SUCCESS]Delete event email group Jason. | Delete event email group Jason. |
| example |
| TELNET Log in to the EVOIPCTL2Delete event email group Jason, and enter the command:DEL EVENT EMAIL GROUP Jasonreturn:[SUCCESS]Delete event email group Jason. |

## Set event type

|  |
| --- |
| API |
| S EVENT [hdl] TYPE TX [tx]S EVENT [hdl] TYPE RX [rx] |
| description |
| Set the event type. |
| parameter | description |
| hdl | [01...80]: Event handle |
| tx | [001... 762]: TX ID |
| rx | [001... 762]: RX ID |
| returned value | description |
| [SUCCESS]Set transmitter 001 to event 3. | Set transmitter 001 to event 3. |
| example |
| TELNET Log in to the EVOIPCTL2Set transmitter 001 to event 3, and enter the command:S EVENT 3 TYPE TX 1return:[SUCCESS]Set transmitter 001 to event 3. |

## Set event name

|  |
| --- |
| API |
| S EVENT [hdl] EVENT NAME [name] |
| description |
| Set the event name. |
| parameter | description |
| hdl | [01...80]: Event handle |
| name | 0: Connection lost1: Video lost |
| returned value | description |
| [SUCCESS]Set event 3 event name to Connection Lost. | Set event 3 event name to Connection Lost. |
| example |
| TELNET Log in to the EVOIPCTL2Set event 3 event name to Connection Lost, enter the command:S EVENT 3 EVENT NAME 0return:[SUCCESS]Set event 3 event name to Connection Lost. |

## Set event action

|  |
| --- |
| API |
| S EVENT [hdl] ACTION TYPE [type] DATA [data] |
| description |
| Set the event action. |
| parameter | description |
| hdl | [01...80]: Event handle |
| type | 0: E-MAIL1: Reboot |
| data | Parameters, separate with commas.(Only used for action type 0) |
| returned value | description |
| [SUCCESS]Set event 3 action to email. | Set event 3 action to email. |
| example |
| TELNET Log in to the EVOIPCTL2Set event 3 action to email, and email receivers is group Jason, enter the command:S EVENT 3 ACTION TYPE 0 DATA Jasonreturn:[SUCCESS]Set event 3 action to email. |

## Get the event status

|  |
| --- |
| API |
| R EVENT [hdl] STATUS |
| description |
| Get the event status. |
| parameter | description |
| hdl | [01...80]: Event handle0: All events |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the EVOIPCTL2Get all events status, enter the command:R EVENT 0 STATUSreturn:================================================================ EVO-IP Event Info FW Version: 1.10.26ID Type Name Event001 TX TX\_6CDFFB085B08 videoLost >>Action Group email new\_group\_0 reboot ID Type Name Event002 TX TX\_6CDFFB085B08 connectionLost >>Action Group email JasonID Type Name Event003 TX TX\_6CDFFB085B08 connectionLost >>Action Group email Jason================================================================ |

## Get the event email group status

|  |
| --- |
| API |
| R EVENT EMAIL GROUP STATUS |
| description |
| Get the event email group status. |
| parameter | description |
|  |  |
| returned value | description |
|  |  |
| example |
| TELNET Log in to the EVOIPCTL2Get the event email group status, enter the command:R EVENT EMAIL GROUP STATUSreturn:================================================================ EVO-IP E-MAIL Group Info FW Version: 1.10.26ID Group/Receivers01 new\_group\_0 example@email.com,example1@email.com02 new\_group\_1 example2@email.com,example3@email.com03 Jason Jason.data@vanco1.com,example1@email.com================================================================ |

# EVOIPCTL2 Network Configuration API

##  Set the EVOIPCTL2 IP mode

|  |
| --- |
| API |
| S NETWORK [lan] DHCP ON/OFF |
| description |
| Set the IP mode for the EVOIPCTL2 CONTROL LAN and VIDEO LAN ports. |
| parameter | description |
| lan | LAN1: VIDEO LAN portLAN2: CONTROL LAN port |
| ON/OFF | ON: To enable the DHCPOFF: Turn off the DHCP with a static IP |
| returned value | description |
| [SUCCESS]Set lan2 DHCP to on.Use "S NETWORK REBOOT" command or repower device to apply new config!!! | Set the CONTROL LAN port to the DHCP mode |
| example |
| TELNET Log in to the EVOIPCTL2Set the CONTROL LAN port to the DHCP mode, and enter the command:S NETWORK LAN2 DHCP ONreturn:[SUCCESS]Set lan2 DHCP to on.Use "S NETWORK REBOOT" command or repower device to apply new config!!! |

##  Set the EVOIPCTL2 IP address

|  |
| --- |
| API |
| S NETWORK [lan] STATIC IP [ip] |
| description |
| Set the IP address of EVOIPCTL2 CONTROL LAN and VIDEO LAN ports, only valid when the network port is set to static IP mode. |
| parameter | description |
| lan | LAN1: VIDEO LAN portLAN2: CONTROL LAN port |
| ip | IP addresses, such as 169.254.20.10 |
| returned value | description |
| [SUCCESS]Set lan2 IP address to 192.168.070.040.Use "S NETWORK REBOOT" command or repower device to apply new config!!! | Set the IP of the CONTROL LAN port to 192.168.70.40 |
| example |
| TELNET Log in to the EVOIPCTL2Set the IP of the CONTROL LAN port to 192.168.70.40, enter the command:S NETWORK LAN2 STATIC IP 192.168.70.40return:[SUCCESS]Set lan2 IP address to 192.168.070.040.Use "S NETWORK REBOOT" command or repower device to apply new config!!! |

##  Set the EVOIPCTL2 gateway address

|  |
| --- |
| API |
| S NETWORK [lan] STATIC GATEWAY [gw] |
| description |
| Set the gateway address of EVOIPCTL2 CONTROL LAN and VIDEO LAN ports, only valid when the network port is set to static IP mode. |
| parameter | description |
| lan | LAN1: VIDEO LAN portLAN2: CONTROL LAN port |
| gw | Gateway address, such as 169.254.0.1 |
| returned value | description |
| [SUCCESS]Set lan2 gateway address to 192.168.070.001.Use "S NETWORK REBOOT" command or repower device to apply new config!!! | The gateway address of the CONTROL LAN port is 192.168.70.1 |
| example |
| TELNET Log in to the EVOIPCTL2Set the gateway address of the CONTROL LAN port to 192.168.70.1, enter the command:S NETWORK LAN2 STATIC GATEWAY 192.168.70.1NET RBreturn:[SUCCESS]Set lan2 gateway address to 192.168.070.001.Use "S NETWORK REBOOT" command or repower device to apply new config!!! |

##  Set the EVOIPCTL2 subnet mask

|  |
| --- |
| API |
| S NETWORK [lan] STATIC MASK [mask] |
| description |
| Set the subnet mask for EVOIPCTL2 CONTROL LAN and VIDEO LAN ports only when the port is set to static IP mode. |
| parameter | description |
| lan | LAN1: VIDEO LAN portLAN2: CONTROL LAN port |
| mask | Subnet mask, such as 255.255.0.0 |
| returned value | description |
| [SUCCESS]Set lan2 subnet mask address to 255.255.255.000.Use "S NETWORK REBOOT" command or repower device to apply new config!!! | Set the subnet mask of the CONTROL LAN port to 255.255.255.0 |
| example |
| TELNET Log in to the EVOIPCTL2Set the subnet mask of the CONTROL LAN port to 255.255.255.0, enter the command:S NETWORK LAN2 STATIC MASK 255.255.255.0return:[SUCCESS]Set lan2 subnet mask address to 255.255.255.000.Use "S NETWORK REBOOT" command or repower device to apply new config!!! |

##  Restart the EVOIPCTL2 network card

|  |
| --- |
| API |
| S NETWORK REBOOT |
| description |
| Restart the EVOIPCTL2 network card, after modifying the network parameters, you need to send this API to make the configuration effective. |
| parameter | description |
|  |  |
| returned value | description |
| [SUCCESS]Set network reboot and apply new config. | The network card was restarted successfully |
| example |
| TELNET Log in to the EVOIPCTL2Restart the network card and enter the command:S NETWORK REBOOTreturn:[SUCCESS]Set network reboot and apply new config. |

##  Set the EVOIPCTL2 TELNET port number

|  |
| --- |
| API |
| S NETWORK TELNET PORT [port] |
| description |
| Set the EVOIPCTL2 TELNET port number, which default to 23 |
| parameter | description |
| port | TELNET Port number, with a maximum value of 65535 |
| returned value | description |
| [SUCCESS]Set telnet port to 0030. | Set the TELNET port number to 30 |
| example |
| TELNET Log in to the EVOIPCTL2Set the TELNET port number to 30, and enter the command:S NETWORK TELNET PORT 30return:[SUCCESS]Set telnet port to 0030. |

##  Set the EVOIPCTL2 HTTPS

|  |
| --- |
| API |
| S NETWORK HTTPS ON/OFF |
| description |
| Set the CTL100AL HTTPS，default disable HTTPS。 |
| parameter | description |
| ON/OFF | ON：Enable HTTPSOFF: Disable HTTPS |
| returned value | description |
| [SUCCESS]Set web gui https on. | Enable HTTPS |
| example |
| TELNET Log in to the EVOIPCTL2Enable HTTPS, and enter the command:S NETWORK HTTPS ONreturn： [SUCCESS]Set web gui https on. |

##  Modify the EVOIPCTL2 domain name

|  |
| --- |
| API |
| S NETWORK DNS hostname |
| description |
| Modify the domain name of EVOIPCTL2, and the default domain name is controller.local。 |
| parameter | description |
| hostname | Domain name, only support letters, numbers, and special characters such as \_. |
| returned value | description |
| [SUCCESS]Set DNS domain name to test.local.System will restart, please wait... | Set the domain name to the test.local |
| example |
| TELNET Log in to the EVOIPCTL2Set the domain name to the test.local, Enter the command:S NETWORK DNS testreturn:[SUCCESS]Set DNS domain name to test.local.System will restart, please wait... |