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HT-OSIRIS-DSP1

Digital Signal Processor

API Command List

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Connecting to the HT-OSIRIS-DSP1

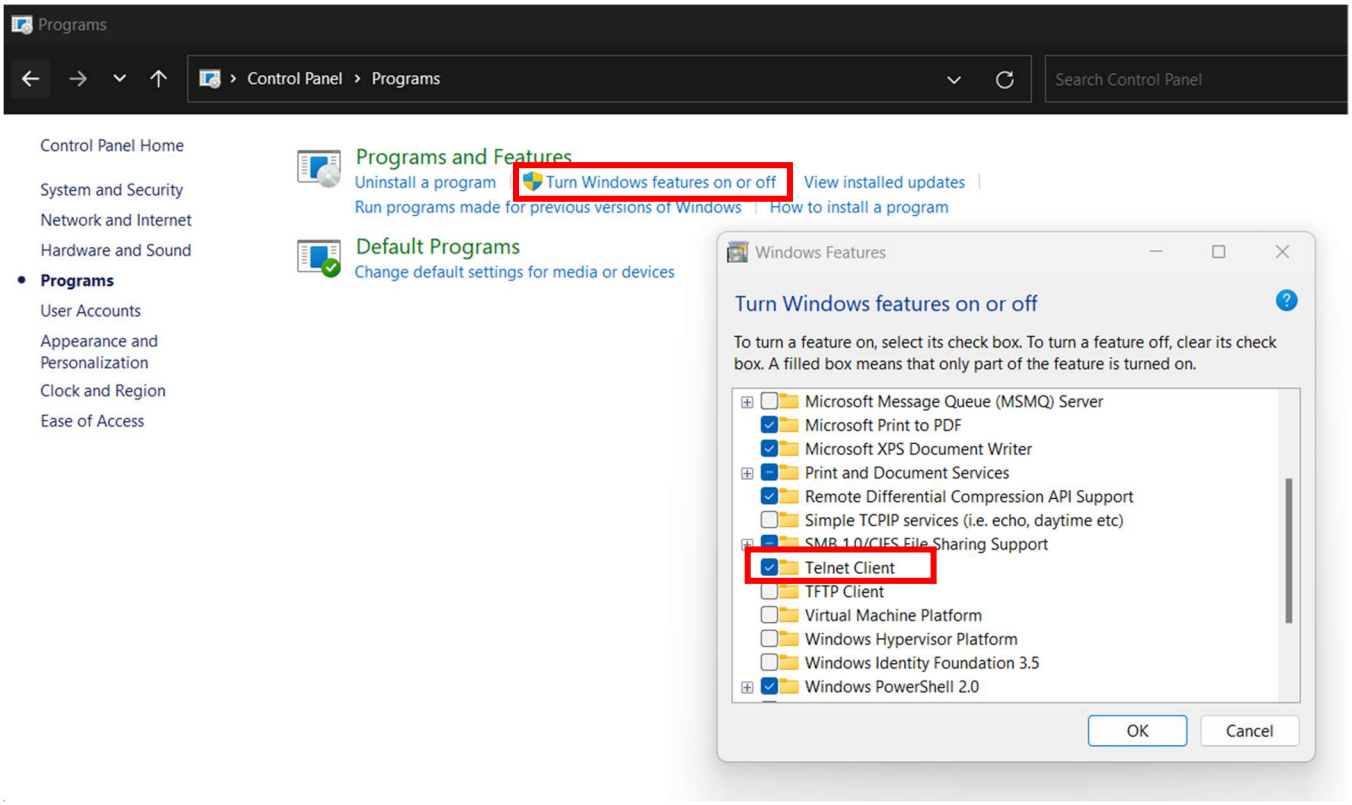
IP ADDRESS

To connect to and communicate with the HT-OSIRIS-DSP1, the controlling device needs to be on the same network. If needed, change the IP address on your PC to be in the same IP range and same subnet as the HT-OSIRIS-DSP1. The default IP address is: 192.168.10.254.

ENABLING TELNET CLIENT

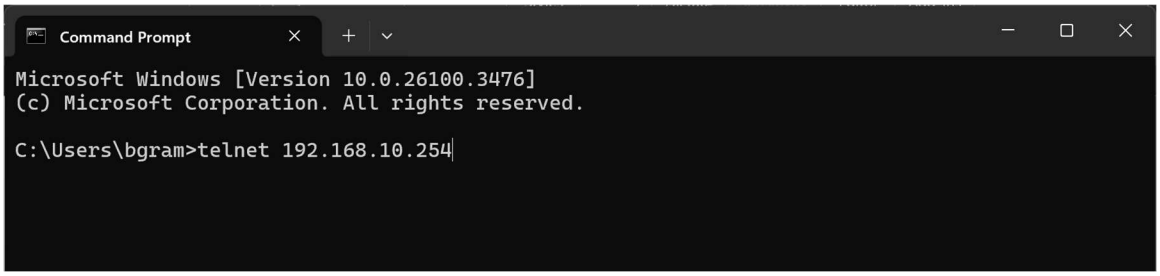
Before logging in to IP controller via command-line interface, make sure that Telnet Client is enabled. By default, Telnet Client is disabled in Windows OS. To turn on Telnet Client, do as follows.

1. Choose **Start > Control Panel > Programs**
2. In the **Programs and Features** area, click **Turn Windows features on or off**.
3. In the **Windows Features** window, select **Telnet Client** check box.



LOGGING IN VIA COMMAND-LINE INTERFACE

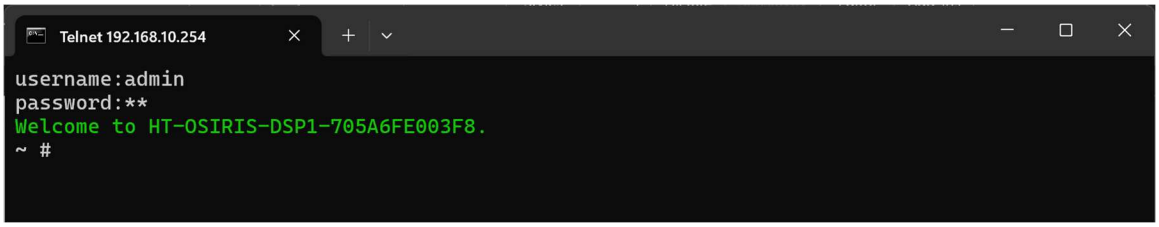
1. Choose **Start > Run**
2. In the Run dialog box, enter **cmd** and then click **OK**.
3. Enter **telnet 192.168.10.254** if the device's IP address is 192.168.10.254 and then press **Enter**.



4. The next prompt will ask for the username and password. Enter **admin** for the username and leave the password field blank and hit enter.



5. The device will display a **#** as the command prompt. The device is now ready to execute the API commands.



Terminology & API Commands Overview

TERMINOLOGY

The terminology used in the API command's description is listed as follows:

- **Device:** the unit being controlled
- **AirPlay Mirroring:** A screen mirroring approach developed by Apple and is supported by many Apple devices such as MacBooks, iPads, and iPhones.
- **Miracast:** A screen mirroring approach developed by Wi-Fi alliance and is supported by all Android devices and Windows PCs.
- **BYOD Source:** AirPlay and Miracast are BYOD solutions.
- **Hardware Source:** The physical hardware interface on the device, such as HDMI or USB Type-C.
- **Software Source:** Certain devices can display video content from a USB camera.

API COMMANDS OVERVIEW

API commands are mainly classified into the following types.

- htconfig: manages the configurations of the device
- htcontrol: controls the device
- htlayout: adjusts the features related to the screen layout
- Event: message from the device to report that the device's state changed

Command syntax uses the command type followed by a space, two dashes, and then the command plus the argument (as needed). For example:

htconfig --source-select hdmi

Type	(space)	(dash dash)	Command	(space)	Parameter
htconfig		--	source-select		hdmi

This example selects HDMI as the source input.

Note: For the "show" command there is only a single dash: htconfig -s source-select

API Commands

HTCONFIG COMMANDS

Command	Parameter(s)	Description
htconfig --help		Displays a list of all available htconfig commands.
htconfig --audio-mode	***{auto | manual}***	Configure the audio routing mode to be either auto routing or manual routing.
htconfig --audio-input-select	***{usb | analog}***	Selects the audio AEC reference input between USB Host or analog (3.5mm input) **NOTE:** this command only works when manual audio mode is selected.
htconfig --audio-in-wireless-select	***{in | usb}***	Selects wireless audio input between USB-C (when connected to the HT-COMALERT-WR) or analog (3.5mm input) **NOTE:** this command only works when manual audio mode is selected.
htconfig --audio-out-select	***{usb | aecout}***	Selects the audio AEC reference output between USB Host or analog (3.5mm input) **NOTE:** this command only works when manual audio mode is selected.
htconfig --link-status	***1: {0 | 1}*** ***2: {0 | 1}*** ***3: {0 | 1}*** ***4: {0 | 1}*** ***5: {0 | 1}*** ***6: {0 | 1}*** ***7: {0 | 1}*** ***8: {0 | 1}*** ***9: {0 | 1}*** ***10: {0 | 1}***	Selects the audio routing (0=link, 1=unlink) 1: Ceiling Mic input to USB Host output 2: Ceiling Mic input to AEC Out (3.5mm) output 3: USB Host AEC input to LINE Out (3.5mm) output 4: AEC Ref (3.5mm) input to LINE Out (3.5mm) output 5: Wireless In (3.5mm) input to USB Host output 6: Wireless In (3.5mm) input to AEC Out (3.5mm) output 7: Wireless In (3.5mm) input to LINE Out (3.5mm) output 8: Wireless Receiver (USB-C) input to USB Host output 9: Wireless Receiver (USB-C) input to AEC Out output 10: Wireless Receiver (USB-C) input to LINE Out output **NOTE:** this command only works when manual audio mode is selected.
htconfig --volume	***1: {-60 ~ 0}*** ***2: {-60 ~ 0}*** ***3: {-60 ~ 0}*** ***4: {-60 ~ 0}*** ***5: {-60 ~ 0}*** ***6: {-60 ~ 0}***	Increases/decreases the audio volume 1: Line Out (3.5mm) output 2: AEC Out (3.5mm) output 3: USB Host output 4: Ceiling Mic (RJ45) input

Command	Parameter(s)	Description
	7: {-60 ~ 0} ***8: {-60 ~ 0}***	5: USB Host input 6: AEC Ref (3.5mm) input 7: Wireless In (3.5mm) input 8: Wireless Receiver (USB-C) input **NOTE:** this command only works when manual audio mode is selected.
htconfig --ducking	***1: {0 | 1}*** ***2: {0 | 1}*** ***3: {-60 ~ 0}*** ***4: {-60 ~ 0}*** ***5: {1 ~ 1000}*** ***6: {1 ~ 3000}*** ***7: {0 | 1}***	Configures the parameters for ducking 1: Enable (0=disable, 1=enable) 2: Priority (0=wireless mic, 1=ceiling mic) 3: Ducking Trigger (-60 dB to 0 dB) 4: Ducking Depth (-60 dB to 0 dB) 5: Attack Time (1ms to 1000ms) 6: Release Time (1ms to 3000ms) 7: USB IN Ducking (0=disable, 1=enable) **NOTE:** this command only works when manual audio mode is selected.
htconfig --ceiling-mic-mute	***{0 | 1}***	Mutes or unmutes ceiling microphone (0=unmute, 1=mute) **NOTE:** this command only works when manual audio mode is selected.
htconfig --sos-mode	***{ethernet | rs232 | contact}***	Selects the desired message output for S.O.S. messages
htconfig --input-contact-mode	***{closure | voltage}***	Selects the Alarm In Mode for an external connection between contact closure and voltage.
htconfig --output-contact-mode	***{closure | voltage}***	Selects the Alarm Out Mode for an external connection between contact closure and voltage.
htconfig --ethernet-config	***1: {IPAddr}*** ***2: {tcp | telnet}*** ***3: {str}*** ***4: {str}***	Configure the ethernet settings in Ethernet Message Output Mode 1: Remote Server IP Address 2: Protocol between TCP or Telnet 3: Username (string) 4: Password (string)
htconfig --ethernet-message	***{str}***	Enter the message string to be sent when triggered NOTE: The string parameters must be enclosed in single quotes: 'hello world'
htconfig --rs232-config	***1: {2400 | 4800 | 9600 | 19200 | 38400 | 57600 | 115200}*** ***2: {6 | 7 | 8}*** ***3: {n | o | e}***	Configures the RS-232 parameters 1: Baud Rate 2: Data Bits 3: Parity (none, odd, even) 4: Stop Bits

Command	Parameter(s)	Description
	4: {1 | 2} ***5: {ascii | hex}*** ***6: {1 | 0}***	5: Hex Mode 6: Append CR & LF (1=enable, 0=disable)
htconfig --rs232-command	***{str}***	Enter the message string to be sent when triggered NOTE: The string parameters must be enclosed in single quotes: 'hello world'
htconfig --ip-addr	***{IPAdddress NetMask Gateway}***	Configure the IP address, Subnet Mask, and the gateway. Default IP is 192.168.10.254
htconfig --show	***{command}***	Displays the settings of the specified item.

HTCONTROL COMMANDS

Command	Argument(s)	Description
htcontrol --help		Displays a list of all available htcontrol commands.
htcontrol –reboot		Reboots the device.
htcontrol --reset		Restores the device to the factory defaults.
htcontrol --device-info		Shows the device firmware version info
htcontrol --reset-audio		Resets all audio parameters to default factory settings
htcontrol --reset-ducking		Resets all ducking parameters to default factory settings



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