

N26x5D Devices

HControl Protocol Document

HARMAN Pro HControl

Third parties can use the HControl protocol to query certain aspects of the supported AVoIP product. HControl is a text-based protocol with a JSON-like syntax. Simple commands can be used to query specific parameters.

CONNECTION SETUP

The devices require opening a telnet connection using port 4197 to the device to be controlled.

```
telnet 192.168.10.135 4197
```

GET

The GET command is used to obtain information from the device. A simple get command has the following syntax:

```
get {"path":"$endpoint"}\n
```

All get commands have responses. A response has the following syntax:

```
@get {"path":"$endpoint","value":"$value"}
```

You can use telnet to experiment with the command/response values. An example is shown below:

```
telnet 192.168.10.135 4197\n\nget {"path":"/configuration/device/name"}\n@get {"path":"/configuration/device/name","value":"Test Varia 15"}\n\nget {"path":"/configuration/device/location"}\n@get {"path":"/configuration/device/location","value":"Test Bench"}
```

Booleans will return true/false (case sensitive) by default, if no specific format is specified. The format can be specified to return alternate values:

```
get {"path":"/varia/display/wakeonapproach"}\n@get {"path":"/varia/display/wakeonapproach","value":true}
```

```
get {"path":"/varia/display/wakeonapproach","format":"string"}\n
@get {"path":"/varia/display/wakeonapproach","value":"true"}
```

Enumerations can return either the string value or the index value of the enumerated value. Returns will depend on the format requested. By default the index value is returned:

```
1 minute:
get {"path":"/varia/display/screentimeout"}\n
@get {"path":"/varia/display/screentimeout","value":3}

get {"path":"/varia/display/screentimeout","format":"string"}\n
@get {"path":"/varia/display/screentimeout","value":"1 minute"}
```

SET

Parameters are set via the SET command. SETs generally have an immediate impact. The following command will change the LED color. The SET response will confirm the value that was set.

```
set {"path":"/varia/hardware/sideled/rgb", "value":"#ff00ff"}\n
@set {"path":"/varia/hardware/sideled/rgb","value":"#ff00ff"}
```

Booleans use true/false (case sensitive) in SETs by default, if no specific format is specified. The format can be specified for alternate values:

```
set {"path":"/varia/display/wakeonapproach","value":true}\n
@set {"path":"/varia/display/wakeonapproach","value":true}

set {"path":"/varia/display/wakeonapproach","value":"true","format":"string"}\n
@set {"path":"/varia/display/wakeonapproach","value":"true"}
```

Enumerations can use either the string value or the index value of the enumerated value. The following are equivalent SET commands:

30 seconds:

```
set {"path":"/varia/display/screentimeout","value":2 }\n@set {"path":"/varia/display/screentimeout","value":2}\n\nset {"path":"/varia/display/screentimeout","value":"30 seconds","format":"string"}\n@set {"path":"/varia/display/screentimeout","value":"30 seconds"}
```

In some instances, the SET response may not match the value requested. This is generally due to scaling factors or out-of-range values in things like brightness, audio volume, etc. If the sending app is keeping state, then the local value should be updated to the value in the SET response.

```
set {"path":"/varia/display/brightness","value":101}\n@set {"path":"/varia/display/brightness","value":100}
```

HControl	Description	Data Type	Event	Command	Get	Set	Example
Encoder							
/encoder/streamSetup/playMode	Play Mode	Enum ['Live', 'Default Playlist 1', 'Default Playlist 2', 'Default Playlist 3', 'Default Playlist 4', 'Default Playlist 5', 'Default Playlist 6', 'Default Playlist 7', 'Default Playlist 8']			GET	SET	set {"path": "/encoder/streamSetup/playMode", "value": "Default Playlist 1"} @set {"path": "/encoder/streamSetup/playMode", "value": 1}
/encoder/streamSetup/mwcStream/videoSource	Video Source Selection	Enum ['Auto', 'HDMI', 'USB-C']			GET	SET	set {"path": "/encoder/streamSetup/mwcStream/videoSource", "value": "HDMI"} @set {"path": "/encoder/streamSetup/mwcStream/videoSource", "value": 1}
/encoder/streamSetup/mwcStream/videoStreamNumber	Video Stream	Integer 1-32767			GET	SET	set {"path": "/encoder/streamSetup/mwcStream/videoStreamNumber", "value": 418} @set {"path": "/encoder/streamSetup/mwcStream/videoStreamNumber", "value": 418}
/encoder/streamSetup/mwcStream/txEnable	MWX TX Enable	Boolean			GET	SET	set {"path": "/encoder/streamSetup/mwcStream/txEnable", "value": false} @set {"path": "/encoder/streamSetup/mwcStream/txEnable", "value": false}
/encoder/streamSetup/mwcStream/videoMute	Video Mute	Boolean			GET	SET	set {"path": "/encoder/streamSetup/mwcStream/videoMute", "value": true} @set {"path": "/encoder/streamSetup/mwcStream/videoMute", "value": true}
/encoder/streamSetup/mwcStream/hdcpSupport	HDCP Support	Enum ['2.x', '1.x', 'None']			GET	SET	set {"path": "/encoder/streamSetup/mwcStream/hdcpSupport", "value": "1.x"} @set {"path": "/encoder/streamSetup/mwcStream/hdcpSupport", "value": 1}

HControl	Description	Data Type	Event	Command	Get	Set	Example
/encoder/streamSetup/mwcStream/previewImage	Preview Image	Boolean			GET	SET	set {"path": "/encoder/streamSetup/mwcStream/previewImage", "value": false} @set {"path": "/encoder/streamSetup/mwcStream/previewImage", "value": false}
/encoder/edid/HDMI	HDMI EDID	Byte Array			GET		
/encoder/edid/USB-C	USB-C EDID	Byte Array			GET		
/encoder/audiInput/audioSource	Audio Source	Enum ['HDMI', 'Analog']			GET	SET	set {"path": "/encoder/audiInput/audioSource", "value": "ANALOG"} @set {"path": "/encoder/audiInput/audioSource", "value": 1}
/encoder/audiInput/audioMute	Mute	Boolean			GET	SET	set {"path": "/encoder/audiInput/audioMute", "value": true} @set {"path": "/encoder/audiInput/audioMute", "value": true}
/encoder/kvm/enable	KVM Enable	Boolean			GET	SET	set {"path": "/encoder/kvm/enable", "value": true} @set {"path": "/encoder/kvm/enable", "value": true}
/encoder/usb20Route/enable	USB 2.0 Enable	Boolean			GET	SET	set {"path": "/encoder/usb20Route/enable", "value": true} @set {"path": "/encoder/usb20Route/enable", "value": true}
/encoder/security/forceHTTPS	Enable HTTPS	Boolean			GET	SET	set {"path": "/encoder/security/forceHTTPS", "value": true} @set {"path": "/encoder/security/forceHTTPS", "value": true}
/encoder/logging/startDebugLog	Start Debug Log			COMMAND			exec {"path": "/encoder/logging", "command": "startDebugLog"}
/encoder/logging/stopDebugLog	End Debug Log			COMMAND			exec {"path": "/encoder/logging", "command": "stopDebugLog"}
/encoder/generalSetup/igmpv3Support	IGMPv3	Boolean			GET	SET	set {"path": "/encoder/generalSetup/igmpv3Support", "value": true} @set {"path": "/encoder/generalSetup/igmpv3Support", "value": true}
/encoder/generalSetup/sendStatusEnable	Enable Send Status	Boolean			GET	SET	set {"path": "/encoder/generalSetup/sendStatusEnable", "value": true} @set {"path": "/encoder/generalSetup/sendStatusEnable", "value": true}
/encoder/generalSetup/statusIP	Send Status Address	String			GET	SET	set {"path": "/encoder/generalSetup/statusIP", "value": "169.254.10.10"} @set {"path": "/encoder/generalSetup/statusIP", "value": "169.254.10.10"}
/encoder/generalSetup/statusInterval	Status Interval	String 10-500 (Intervals of 10)			GET	SET	set {"path": "/encoder/generalSetup/statusInterval", "value": "380"} @set {"path": "/encoder/generalSetup/statusInterval", "value": "37"}
/encoder/generalSetup/gratARPEnable	Gratuitous ARP	Boolean			GET	SET	set {"path": "/encoder/generalSetup/gratARPEnable", "value": false} @set {"path": "/encoder/generalSetup/gratARPEnable", "value": false}

HControl	Description	Data Type	Event	Command	Get	Set	Example
/encoder/generalSetup/gratARPInterval	ARP Interval	String 10-500 (Intervals of 10)			GET	SET	set {"path": "/encoder/generalSetup/gratARPInterval", "value": "170"} @set {"path": "/encoder/generalSetup/gratARPInterval", "value": "16"}
/encoder/generalSetup/enableDiscoveryPackets	Discovery Packet Transmit	Boolean			GET	SET	set {"path": "/encoder/generalSetup/enableDiscoveryPackets", "value": true} @set {"path": "/encoder/generalSetup/enableDiscoveryPackets", "value": true}
/encoder/generalSetup/discoveryIntervalSec	Discovery Interval	String 1-60			GET	SET	set {"path": "/encoder/generalSetup/discoveryIntervalSec", "value": "54"} @set {"path": "/encoder/generalSetup/discoveryIntervalSec", "value": "54"}
/encoder/generalSetup/dscp	DSCP	Enum [0,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,46,48,56]			GET	SET	set {"path": "/encoder/generalSetup/dscp", "value": "24"} @set {"path": "/encoder/generalSetup/dscp", "value": "9"}
/encoder/managementSetup/settingsLock	Settings Lock	Boolean			GET	SET	set {"path": "/encoder/managementSetup/settingsLock", "value": true} @set {"path": "/encoder/managementSetup/settingsLock", "value": true}
/encoder/managementSetup/LowPowerMode	Low Power Mode	Boolean			GET	SET	set {"path": "/encoder/managementSetup/LowPowerMode", "value": true} @set {"path": "/encoder/managementSetup/ LowPowerMode ", "value": true}
/encoder/managementSetup/osdMenuEnable	OSD Menu	Boolean			GET	SET	set {"path": "/encoder/managementSetup/osdMenuEnable", "value": true} @set {"path": "/encoder/managementSetup/osdMenuEnable", "value": true}
/encoder/managementSetup/multicastAddressOverride	Multicast Address Override	Boolean			GET	SET	set {"path": "/encoder/managementSetup/multicastAddressOverride", "value": true} @set {"path": "/encoder/managementSetup/multicastAddressOverride", "value": true}
/encoder/managementSetup/multicastAddress	Multicast Address	String			GET	SET	set {"path": "/encoder/managementSetup/multicastAddress", "value": "229.15.0.0"} @set {"path": "/encoder/managementSetup/multicastAddress", "value": "229.15.0.0"}
/encoder/managementSetup/allowMulticast/shutdownP1	Disable P1	Boolean			GET	SET	set {"path": "/encoder/managementSetup/allowMulticast/shutdownP1", "value": true} @set {"path": "/encoder/managementSetup/allowMulticast/shutdownP1", "value": true}
/encoder/systemStatus/hdmiStatus	HDMI Status	Enum [Disconnected, Connected]			GET		@get {"path": "/encoder/systemStatus/hdmiStatus", "value": "1"}
/encoder/systemStatus/hdmiResolution	HDMI Resolution	String			GET		@get {"path": "/encoder/systemStatus/hdmiResolution", "value": "3840x2160p@60"}
/encoder/system/hdcpStatus	HDCP Status	String			GET		@get {"path": "/encoder/systemStatus/hdcpStatus", "value": "Disabled"}
/encoder/systemStatus/hdmiResolutionChanged	HDMI Resolution Change	String	EVENT				subscribeevent {"path": "/encoder/systemStatus/hdmiResolutionChanged"} @subscribeevent {"path": "/encoder/systemStatus/hdmiResolutionChanged"} event {"path": "/encoder/systemStatus/hdmiResolutionChanged", "arguments": {"data": "3840x2160p@60"}}

HControl	Description	Data Type	Event	Command	Get	Set	Example
/encoder/systemStatus/hdmiCableStatusChanged	HDMI Cable Status	Enum [Disconnected, Connected]	EVENT				<pre>subscribeevent {"path": "/encoder/systemStatus/hdmiCableStatusChanged"} @subscribeevent {"path":"/encoder/systemStatus/hdmiCableStatusChanged"} event {"path":"/encoder/systemStatus/hdmiCableStatusChanged", "arguments":{"data":0}}</pre>
/encoder/systemStatus/usbCStatus	USB-C Status	Enum [Disconnected, Connected]			GET		<pre>@get {"path":"/encoder/systemStatus/usbCStatus", "value":0}</pre>
/encoder/systemStatus/usbCResolution	USB-C Resolution	String			GET		<pre>@get {"path":"/encoder/systemStatus/usbCResolution", "value":"disconnect"}</pre>
/encoder/systemStatus/usbCCableStatusChanged	USB-C Cable Status	Enum [Disconnected, Connected]			GET		<pre>subscribeevent {"path":"/encoder/systemStatus/usbCCableStatusChanged"} @subscribeevent {"path":"/encoder/systemStatus/usbCCableStatusChanged"} event {"path":"/encoder/systemStatus/usbCCableStatusChanged", "arguments":{"data":0}}</pre>
/encoder/datetime/ntp/serverManager	NTP Server						<pre>get {"path": "/encoder/datetime/ntp/serverManager/1"} @get [{"path":"/encoder/datetime/ntp/serverManager/1/select", "value":false}, {"path":"/encoder/datetime/ntp/serverManager/1/serverName", "value":"pool.ntp.org"}, {"path":"/encoder/datetime/ntp/serverManager/1/ipHostName", "value":"debian.pool.ntp.org"}, {"path":"/encoder/datetime/ntp/serverManager/1/description", "value":"pool.ntp.org"}, {"path":"/encoder/datetime/ntp/serverManager/1/authType", "value":1}, {"path":"/encoder/datetime/ntp/serverManager/1/authKeyID", "value":0}, {"path":"/encoder/datetime/ntp/serverManager/1/authSecret", "value":""}]</pre>
/encoder/datetime/timezone	Timezone	See Appendix A			GET	SET	<pre>set {"path": "/encoder/datetime/timezone", "value":"(UTC-06:00) Central Time (US & Canada)"} @set {"path":"/encoder/datetime/timezone", "value":9}</pre>
/encoder/datetime/datetime	Date / Time				GET		<pre>get {"path": "/encoder/datetime/datetime"} @get {"path":"/encoder/datetime/datetime", "value":"Tue May 14 20:31:11 2024"}</pre>
/configuration/commands/reset	Reboot/ Default Settings						<pre>For Reboot: exec {"path": "/configuration/commands", "command":"reset", "arguments":{"level":"System"}} For Factory Restore: exec {"path": "/configuration/commands", "command":"reset", "arguments":{"level":"Factory"}}</pre>

Hcontrol	Description	Data Type	Event	Command	Get	Set	Example
Decoder							
/decoder/datetime/ntp/serverManager	NTP Server	[Boolean, String, String, String, Enum, Integer, String]			GET	SET	<pre>get {"path": "/decoder/datetime/ntp/serverManager/1"} @get [{"path": "/decoder/datetime/ntp/serverManager/1/select", "value": false}, {"path": "/decoder/datetime/ntp/serverManager/1/serverName", "value": "pool.ntp.org"}, {"path": "/decoder/datetime/ntp/serverManager/1/ipHostName", "value": "debian.pool.ntp.org"}, {"path": "/decoder/datetime/ntp/serverManager/1/description", "value": "pool.ntp.org"}, {"path": "/decoder/datetime/ntp/serverManager/1/authType", "value": "1"}, {"path": "/decoder/datetime/ntp/serverManager/1/authKeyID", "value": "0"}, {"path": "/decoder/datetime/ntp/serverManager/1/authSecret", "value": ""}]</pre>
/decoder/datetime/timezone	Time Zones	See Appendix A			GET	SET	<pre>set {"path": "/decoder/datetime/timezone", "value": "(UTC-06:00) Central Time (US & Canada)"} @set {"path": "/decoder/datetime/timezone", "value": "9"}</pre>
/decoder/datetime/datetime	Date / Time				GET		<pre>get {"path": "/decoder/datetime/datetime"} @get {"path": "/decoder/datetime/datetime", "value": "Tue May 14 20:31:11 2024"}</pre>
/decoder/streamSetup/playMode	Play Mode	Enum ['Live', 'Default Playlist 1', 'Default Playlist 2', 'Default Playlist 3', 'Default Playlist 4', 'Default Playlist 5', 'Default Playlist 6', 'Default Playlist 7', 'Default Playlist 8']			GET	SET	<pre>set {"path": "/decoder/streamSetup/playMode", "value": "Default Playlist 1"} @set {"path": "/decoder/streamSetup/playMode", "value": "1"}</pre>
/decoder/streamSetup/videoStreamNumber	Video Stream Number	Integer 0-3276			GET	SET	<pre>"set {"path": "/decoder/streamSetup/mwcStream/videoStreamNumber", "value": "418"} @set {"path": "/decoder/streamSetup/mwcStream/videoStreamNumber", "value": "418"}</pre>
/decoder/streamSetup/audioStreamNumber	Audio Stream Number	Integer 0-3276			GET	SET	<pre>set {"path": "/decoder/streamSetup/audioStreamNumber", "value": "327"} @set {"path": "/decoder/streamSetup/audioStreamNumber", "value": "327"}</pre>

Hcontrol	Description	Data Type	Event	Command	Get	Set	Example
/decoder/streamSetup/audioFollowVideo	Audio Follows Video	Boolean			GET	SET	set {"path": "/decoder/streamSetup/audioFollowVideo", "value":false} @set {"path": "/decoder/streamSetup/audioFollowVideo", "value":false}
/decoder/streamSetup/previewImage	Preview Image	Boolean			GET	SET	set {"path": "/decoder/streamSetup/mwcStream/previewImage", "value":false} @set {"path": "/decoder/streamSetup/mwcStream/previewImage", "value":false}
/decoder/hdmiOut/enable	HDMI Enable	Boolean			GET	SET	set {"path": "/decoder/hdmiOut/enable", "value":false} @set {"path": "/decoder/hdmiOut/enable", "value":false}
/decoder/hdmiOut/scalerEnable	Scaler Enable	Boolean			GET	SET	set {"path": "/decoder/hdmiOut/scalerEnable", "value":true} @set {"path": "/decoder/hdmiOut/scalerEnable", "value":true}
/decoder/hdmiOut/outResolution	Output Resolution	Enums ["AUTO", "1080p24", "1080p50", "1080p60", "1400x1050p60", "1920x1200p60", "2160p25", "2160p30", "2160p50", "2160p60", "2560x1440p60", "2560x1600p60", "720p50", "720p60", "1440x900p60", "1366x768p60"]			GET	SET	set {"path": "/decoder/hdmiOut/outResolution", "value": "1080p60"} @set {"path": "/decoder/hdmiOut/outResolution", "value": 3}
/decoder/hdmiOut/yuvOutput	YUV Output	Enums ["AUTO", "ON", "OFF"]			GET	SET	set {"path": "/decoder/hdmiOut/yuvOutput", "value": "On"} @set {"path": "/decoder/hdmiOut/yuvOutput", "value": 1}
/decoder/hdmiOut/videoMute	Video Mute	Boolean			GET	SET	set {"path": "/decoder/hdmiOut/videoMute", "value":true} @set {"path": "/decoder/hdmiOut/videoMute", "value":true}

Hcontrol	Description	Data Type	Event	Command	Get	Set	Example
/decoder/hdmiOut/hdmiOff	HDMI Off on Stream Loss	Boolean			GET	SET	set {"path": "/decoder/hdmiOut/hdmiOff", "value":true} @set {"path":"/decoder/hdmiOut/hdmiOff", "value":true}
/decoder/hdmiOut/hdmiOffDelay	HDMI Off on Stream Loss Delay	Integer 0-1800			GET	SET	set {"path": "/decoder/hdmiOut/hdmiOffDelay", "value":120} @set {"path":"/decoder/hdmiOut/hdmiOffDelay", "value":120}
/decoder/hdmiOut/cecPower	CEC Power	Enums ["ON", "OFF"]					set {"path": "/decoder/hdmiOut/cecPower", "value":120} @set {"path":"/decoder/hdmiOut/hdmiOffDelay", "value":120}
/decoder/audioOutput/audioMute	Audio Mute	Boolean			GET	SET	set {"path": "/decoder/audioOutput/audioMute", "value":true} @set {"path":"/decoder/audioOutput/audioMute", "value":true}
/decoder/audioOutput/enableHDMIAudio	HDMI Audio Enable	Enums ["AUTO", "OFF"]			GET	SET	set {"path": "/decoder/audioOutput/enableHDMIAudio", "value":"Off"} @set {"path":"/decoder/audioOutput/enableHDMIAudio", "value":1}
/decoder/audioOutput/analogAudioOut/lineOutVolume	Analog LineOut Volume	Integer 0-100			GET	SET	set {"path": "/decoder/audioOutput/analogAudioOut/lineOutVolume", "value":25} @set {"path":"/decoder/audioOutput/analogAudioOut/lineOutVolume", "value":25}
/decoder/audioOutput/analogAudioOut/leftVolume	Analog Left Volume	Integer 0-100			GET	SET	set {"path": "/decoder/audioOutput/analogAudioOut/leftVolume", "value":75} @set {"path":"/decoder/audioOutput/analogAudioOut/leftVolume", "value":75}
/decoder/audioOutput/analogAudioOut/rightVolume	Analog Right Volume	Integer 0-100			GET	SET	set {"path": "/decoder/audioOutput/analogAudioOut/rightVolume", "value":100} @set {"path":"/decoder/audioOutput/analogAudioOut/rightVolume", "value":100}
/decoder/serial/baudRate	RS232 Baud Rate	Enum ['1200', '4800', '9600', '19200', '38400', '57600', '115200']			GET	SET	set {"path": "/decoder/serial/baudRate", "value":19200} @set {"path":"/decoder/serial/baudRate", "value":3}
/decoder/serial/dataBits	RS232 Data Bits	Integer 7-8			GET	SET	set {"path": "/decoder/serial/dataBits", "value":7} @set {"path":"/decoder/serial/dataBits", "value":7}

Hcontrol	Description	Data Type	Event	Command	Get	Set	Example
/decoder/serial/stopBits	RS232 Stop Bits	Integer 1-2			GET	SET	set {"path": "/decoder/serial/stopBits", "value":2} @set {"path": "/decoder/serial/stopBits", "value":2}
/decoder/serial/parity	RS232 Parity	Enum ['None', 'Even', 'Odd']			GET	SET	set {"path": "/decoder/serial/parity", "value":2} @set {"path": "/decoder/serial/parity", "value":2}
/decoder/serial/serCommands	Serial Recall	String			GET	SET	set {"path": "/decoder/serial/serCommands/2/serialCodeName", "value": "test2"}, {"path": "/decoder/serial/serCommands/2/serialData", "value": "hello world"} @set {"path": "/decoder/serial/serCommands/2/serialCodeName", "value": "test2"}
/decoder/serial/deleteSer	Delete Serial Name	String		CMD			exec {"path": "/decoder/serial", "command": "deleteSer", "arguments": {"data": "test2"}}
/decoder/serial/sendser	Send Serial Data	String		CMD			exec {"path": "/decoder/serial", "command": "sendser", "arguments": {"data": "test"}}
/decoder/serial/sendserraw	Raw Serial	Byte_Array		CMD			exec {"path": "/decoder/serial", "command": "sendserraw", "arguments": {"data": "test"}}
/decoder/serial/responseser	Serial Response	Byte_Array	Evtnt				subscribeevent {"path": "/decoder/serial/response"} @subscribeevent {"path": "/decoder/serial/response"}
/decoder/serial/serialPassthru/serialMainEnable	Serial Main Enable	Boolean			GET	SET	set {"path": "/decoder/serial/serialPassthru/serialMainEnable", "value": true} @set {"path": "/decoder/serial/serialPassthru/serialMainEnable", "value": true}
/decoder/serial/serialPassthru/serialSecondaryAddress	Serial Second Address	String			GET	SET	set {"path": "/decoder/serial/serialPassthru/serialSecondaryAddress", "value": "169.254.10.10"} @set {"path": "/decoder/serial/serialPassthru/serialSecondaryAddress", "value": "169.254.10.10"}
/decoder/ir/irCommands	IR CMD	String			GET	SET	get {"path": "/decoder/ir/irCommands/1"} @get [{"path": "/decoder/ir/irCommands/1/irCodeName", "value": "SHARP"}, {"path": "/decoder/ir/irCommands/1/irCode", "value": "MDAwMCAwMDZkIDAwMDAgMDAyMCAwMDA5IDA5NDYgMDAwOSAwMDFIIDAwMDkgMDAxZSAwMDA5IDA5MWUgMDAwOSAwMDFIIDAwMDkgMDAxZSAwMDA5IDA5NDYgMDAwOSAwMDQ2IDA5MDkgMDAxZSAwMDA5IDA5NDYgMDAwOSAwMDFIIDAwMDkgMDAxZSAwMDA5IDA5MWUgMDAwOSAwMDQ2IDA5MDkgMDAxZSAwMDA5IDA5ZgMDAwOSAwMDQ2IDA"}]
/decoder/ir/deleteir	Delete IR CMD	String		CMD			exec {"path": "/decoder/ir", "command": "deleteir", "arguments": {"data": "SHARP"}} @exec
/decoder/ir/sendir	Send IR CMD	String		CMD			exec {"path": "/decoder/ir", "command": "sendir", "arguments": {"data": "SHARP"}} @exec
/decoder/ir/sendirraw	Send Raw IR -PRONTO	String		CMD			exec {"path": "/decoder/ir", "command": "sendirraw", "arguments": {"data": "SHARP"}} @exec
/decoder/ir/irPassthru/irPasshruEnable	IR Passthru h Enable	Boolean			GET	SET	set {"path": "/decoder/ir/irPassthru/irPasshruEnable", "value": true} @set {"path": "/decoder/ir/irPassthru/irPasshruEnable", "value": true}

Hcontrol	Description	Data Type	Event	Command	Get	Set	Example
/decoder/ir/irPassthru/irClientIP	IR Client IP	String			GET	SET	set {"path": "/decoder/ir/irPassthru/irClientIP", "value": "169.254.10.10"} @set {"path": "/decoder/ir/irPassthru/irClientIP", "value": "169.254.10.10"}
/decoder/usbConnection/kvm/enable	KVM Enable	Boolean			GET	SET	set {"path": "/decoder/usbConnection/kvm/enable", "value": true} @set {"path": "/decoder/usbConnection/kvm/enable", "value": true}
/decoder/usbConnection/usb20Route/enable	USB 2.0 Enable	Boolean			GET	SET	set {"path": "/decoder/usbConnection/usb20Route/enable", "value": true} @set {"path": "/decoder/usbConnection/usb20Route/enable", "value": true}
/decoder/usbConnection/usbEncoderIP	KVM/USB 2.0 IP	String			GET	SET	set {"path": "/decoder/usbConnection/usbEncoderIP", "value": "169.254.10.10"} @set {"path": "/decoder/usbConnection/usbEncoderIP", "value": "169.254.10.10"}
/decoder/security/forceHTTPS	Force HTTPS	Boolean			GET	SET	set {"path": "/decoder/security/forceHTTPS", "value": true} @set {"path": "/decoder/security/forceHTTPS", "value": true}
/decoder/logging/startDebugLog	Start Debug Log			CMD			exec {"path": "/decoder/logging", "command": "startDebugLog"}
/decoder/logging/stopDebugLog	End Debug Log			CMD			exec {"path": "/decoder/logging", "command": "stopDebugLog"}
/decoder/generalSetup/igmpv3Support	IGMPv3	Boolean			GET	SET	set {"path": "/decoder/generalSetup/igmpv3Support", "value": true} @set {"path": "/decoder/generalSetup/igmpv3Support", "value": true}
/decoder/generalSetup/igmpJoinOnStreamLoss	IGMP Join On Stream Loss	Boolean			GET	SET	set {"path": "/decoder/generalSetup/igmpJoinOnStreamLoss", "value": false} @set {"path": "/decoder/generalSetup/igmpJoinOnStreamLoss", "value": false}
/decoder/generalSetup/igmpJoinInterval	IGMP Join Interval	Integer 1-4			GET	SET	set {"path": "/decoder/generalSetup/igmpJoinInterval", "value": 2} @set {"path": "/decoder/generalSetup/igmpJoinInterval", "value": 2}
/decoder/generalSetup/sendStatusEnable	Enable Send Status	Boolean			GET	SET	set {"path": "/decoder/generalSetup/sendStatusEnable", "value": true} @set {"path": "/decoder/generalSetup/sendStatusEnable", "value": true}
/decoder/generalSetup/statusIP	Send Status Address	String			GET	SET	set {"path": "/decoder/generalSetup/statusIP", "value": "169.254.10.10"} @set {"path": "/decoder/generalSetup/statusIP", "value": "169.254.10.10"}
/decoder/generalSetup/statusInterval	Status Interval	String 10-500 (Intervals of 10)			GET	SET	set {"path": "/decoder/generalSetup/statusInterval", "value": "380"} @set {"path": "/decoder/generalSetup/statusInterval", "value": "37"}
/decoder/generalSetup/gratARPEnable	Gratuitous ARP	Boolean			GET	SET	set {"path": "/decoder/generalSetup/gratARPEnable", "value": false} @set {"path": "/decoder/generalSetup/gratARPEnable", "value": false}
/decoder/generalSetup/gratARPInterval	ARP Interval	String 10-500 (Intervals of 10)			GET	SET	set {"path": "/decoder/generalSetup/gratARPInterval", "value": "170"} @set {"path": "/decoder/generalSetup/gratARPInterval", "value": "16"}
/decoder/generalSetup/enableDiscoveryPackets	Discovery Packet Transmit	Boolean			GET	SET	set {"path": "/decoder/generalSetup/enableDiscoveryPackets", "value": true} @set {"path": "/decoder/generalSetup/enableDiscoveryPackets", "value": true}

Hcontrol	Description	Data Type	Event	Command	Get	Set	Example
/decoder/generalSetup/discoveryIntervalSec	Discovery Interval	String 1-60			GET	SET	set {"path": "/decoder/generalSetup/discoveryIntervalSec", "value":54} @set {"path":"/decoder/generalSetup/discoveryIntervalSec", "value":54}
/decoder/generalSetup/dscp	DSCP	Enums ["0", "8", "10", "12", "14", "16", "18", "20", "22", "24", "26", "28", "30", "32", "34", "36", "38", "40", "46", "48", "56"]			GET	SET	set {"path": "/decoder/generalSetup/dscp", "value":24} @set {"path":"/decoder/generalSetup/dscp", "value":9}
/decoder/managementSetup/settingsLock	Settings Lock	Boolean			GET	SET	set {"path": "/decoder/managementSetup/settingsLock", "value":true} @set {"path":"/decoder/managementSetup/settingsLock", "value":true}
/decoder/managementSetup/LowPowerMode	Low Power Mode	Boolean			GET	SET	set {"path": "/decoder/managementSetup/LowPowerMode", "value":true} @set {"path":"/decoder/managementSetup/ LowPowerMode ", "value":true}
/decoder/managementSetup/osdMenuEnable	OSD Menu	Boolean			GET	SET	set {"path": "/decoder/managementSetup/osdMenuEnable", "value":true} @set {"path":"/decoder/managementSetup/osdMenuEnable", "value":true}
/decoder/managementSetup/multicastAddressOverride	Multicast Address Override	Boolean			GET	SET	set {"path": "/decoder/managementSetup/multicastAddressOverride", "value":true} @set {"path":"/decoder/managementSetup/multicastAddressOverride", "value":true}
/decoder/managementSetup/multicastAddress	Multicast Address	String			GET	SET	set {"path": "/decoder/managementSetup/multicastAddress", "value":"229.15.0.0"} @set {"path":"/decoder/managementSetup/multicastAddress", "value":"229.15.0.0"}

Hcontrol	Description	Data Type	Event	Command	Get	Set	Example
/decoder/systemStatus/hdmiOutStatus	HDMI Out Status	Enums ["Disconnected", "Connected"]			GET		get {"path": "/decoder/systemStatus/hdmiOutStatus"} @get {"path":"/decoder/systemStatus/hdmiOutStatus", "value":1}
/decoder/systemStatus/hdmiOutResolution	HDMI Out Resolution	String			GET		get {"path": "/decoder/systemStatus/hdmiOutResolution"} @get {"path":"/decoder/systemStatus/hdmiOutResolution", "value":"1920x1080p60"}
/decoder/systemStatus/hdcpStatus	HDCP Output Status	String			GET		get {"path": "/decoder/systemStatus/hdcpStatus"} @get {"path":"/decoder/systemStatus/hdcpStatus", "value":"None"}
/decoder/systemStatus/hdmiOutResolutionChanged			EVENT				subscribeevent {"path": "/decoder/systemStatus/hdmiOutResolutionChanged"} @subscribeevent {"path":"/decoder/systemStatus/hdmiOutResolutionChanged"}
/decoder/systemStatus/hdmiOutCableStatusChanged			EVENT				subscribeevent {"path": "/decoder/systemStatus/hdmiOutCableStatusChanged"} @subscribeevent {"path":"/decoder/systemStatus/hdmiOutCableStatusChanged"} event {"path":"/decoder/systemStatus/hdmiOutCableStatusChanged", "arguments":{}}

Appendix A: Time Zone Parameters

Type: Enum

Date: [

"(UTC-12:00) International Date Line West",
"(UTC-11:00) Midway Island, Samoa",
"(UTC-10:00) Hawaii",
"(UTC-09:00) Alaska",
"(UTC-08:00) Pacific Time (US & Canada & Tijuana)",
"(UTC-07:00) Arizona",
"(UTC-07:00) Chihuahua, La Paz, Mazatlan",
"(UTC-07:00) Mountain Time (US & Canada)",
"(UTC-06:00) Central America",
"(UTC-06:00) Central Time (US & Canada)",
"(UTC-06:00) Guadalajara, Mexico City, Monterrey",
"(UTC-06:00) Saskatchewan",
"(UTC-05:00) Bogota, Lima, Qutio",
"(UTC-05:00) Eastern Time (US & Canada)",
"(UTC-05:00) Indiana (East)",
"(UTC-04:00) Atlantic Time (Canada)",
"(UTC-04:00) Caracas, La Paz",
"(UTC-04:00) Santiago",
"(UTC-03:30) Newfoundland",
"(UTC-03:00) Brasilia",
"(UTC-03:00) Buenos Aires, Georgetown",
"(UTC-03:00) Greenland",
"(UTC-02:00) Mid-Atlantic",
"(UTC-01:00) Azores",
"(UTC-01:00) Cape Verde Is",
"(UTC) Casablanca, Monrovia",
"(UTC) Greenwich Mean Time (Dublin & Edinburgh & Lisbon & London)",
"(UTC+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna",
"(UTC+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague",
"(UTC+01:00) Brussels, Copenhagen, Madrid, Paris",
"(UTC+01:00) Sarajevo, Skopje, Warsaw, Zagreb",
"(UTC+01:00) West Central Africa",
"(UTC+02:00) Athens, Beirut, Istanbul, Minsk",
"(UTC+02:00) Bucharest",
"(UTC+02:00) Cairo",
"(UTC+02:00) Harare, Pretoria",

"(UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius",
"(UTC+02:00) Jerusalem",
"(UTC+03:00) Baghdad",
"(UTC+03:00) Kuwait, Riyadh",
"(UTC+03:00) Moscow, St. Petersburg, Volgograd",
"(UTC+03:00) Nairobi",
"(UTC+03:30) Tehran",
"(UTC+04:00) Abu Dhabi, Muscat",
"(UTC+04:00) Baku, Tbilisi, Yerevan",
"(UTC+04:30) Kabul",
"(UTC+05:00) Ekaterinburg",
"(UTC+05:00) Islamabad, Karachi, Tashkent",
"(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi",
"(UTC+05:45) Kathmandu",
"(UTC+06:00) Almaty, Novosibirsk",
"(UTC+06:00) Astana, Dhaka",
"(UTC+06:00) Sri Jayawardenepura",
"(UTC+06:30) Rangoon",
"(UTC+07:00) Bangkok, Hanoi, Jakarta",
"(UTC+07:00) Krasnoyarsk",
"(UTC+08:00) Beijing, Chongqing, Hong Kong, Urumqi",
"(UTC+08:00) Taipei",
"(UTC+08:00) Irkutsk, Ulan Bator",
"(UTC+08:00) Kuala Lumpur, Singapore",
"(UTC+08:00) Perth",
"(UTC+09:00) Osaka, Sapporo, Tokyo",
"(UTC+09:00) Seoul",
"(UTC+09:00) Yakutsk",
"(UTC+09:30) Adelaide",
"(UTC+09:30) Darwin",
"(UTC+10:00) Brisbane",
"(UTC+10:00) Canberra, Melbourne, Sydney",
"(UTC+10:00) Guam, Port Moresby",
"(UTC+10:00) Hobart",
"(UTC+10:00) Vladivostok",
"(UTC+11:00) Magadan, Solomon Is, New Caledonia",
"(UTC+12:00) Auckland, Wellington",
"(UTC+12:00) Fiji, Kamchatka, Marshall Is",
"(UTC+13:00) Nuku'alofa"

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