Blackmagicdesign

REST API for
HyperDeck

HyperDeck Extreme
HyperDeck Shuttle
HyperDeck Studio

HyperDeck Control REST API

If you are a software developer you can build custom applications or leverage ready to use tools such as REST client or Postman to seamlessly control and interact with HyperDeck disk recorders using HyperDeck Control REST API. This API enables you to perform a wide range of operations, such as starting or stopping recordings, managing playback, accessing disk information and much more. Whether you're developing a custom application tailored to your specific needs or utilizing existing tools, this API empowers you to unlock the full potential of HyperDeck disk recorders with ease. We look forward to seeing what you come up with!

GET /transports/0

Get device's basic transport status.

Response
200 - Transport status.
The response is JSON.

Name	Type	Description	Example
mode	string	Transport mode. Possible values are: InputPreview, InputRecord, Output.	InputPreview

PUT /transports/0

Set device's basic transport status.

Parameters

Name	Type	Description	Example
mode	string	Transport mode. Possible values are: InputPreview, Output.	InputPreview

Response
204 - Transport mode was set.
400 - Failed to set transport mode.

GET /transports/0/stop

Determine if transport is stopped.

Response
200 - Transport stop response.
The response is JSON.

Name	Type	Description	Example
–	boolean	True when transport mode is InputPreview or when in Output mode and speed is 0.	true

PUT /transports/0/stop

Stop transport. Deprecated, use POST /transports/0/stop instead.

Response
204 - Transport stopped.

POST /transports/0/stop

Stop transport.

Response
204 - Transport stopped.

GET /transports/0/play

Determine if transport is playing.

Response
200 - Transport play response.
The response is JSON.

Name	Type	Description	Example
–	boolean	True when transport is in Output mode and speed is non-zero.	true

PUT /transports/0/stop

Start playing on transport. Deprecated, use POST /transports/0/play instead.

Response
204 - Transport playing.
400 - Failed to set transport to play.

POST /transports/0/play

Start playing on transport.

Response
204 - Transport playing.
400 - Failed to set transport to play.

GET /transports/0/playback

Get playback state.

Response
200 - Transport playback state.
The response is JSON.

Name	Type	Description	Example
type	string	Possible values are: Play, Jog, Shuttle, Var.	Play
loop	boolean	When true, playback loops from the end of the timeline to the beginning of the timeline.	false
singleClip	boolean	When true, playback loops from the end of the current clip to the beginning of the current clip.	false
speed	number	Playback speed, 1.0 for normal forward playback.	1.0
position	integer	Playback position on the timeline in units of video frames, where 0 is the first frame of the timeline.	0

PUT /transports/0/playback

Set playback state.

Parameters

Name	Type	Description	Example
type	string	Possible values are: Play, Jog, Shuttle, Var.	Play
loop	boolean	When true, playback loops from the end of the timeline to the beginning of the timeline.	false
singleClip	boolean	When true, playback loops from the end of the current clip to the beginning of the current clip.	false
speed	number	Playback speed, 1.0 for normal forward playback.	1.0
position	integer	Playback position on the timeline in units of video frames, where 0 is the first frame of the timeline. (seek)	0

Response
204 - Updated transport playback state.
400 - Failed to set transport playback state.

GET /transports/0/record

Get record state.

Response
200 - Recording state.
The response is JSON.

Name	Type	Description	Example
recording	boolean	If true, transport is in InputRecord mode.	true

PUT /transports/0/record

Set record state. Deprecated, use POST /transports/0/record instead.

Parameters

Name	Type	Description	Example
recording (required)	boolean	If true, starts a recording, otherwise stops.	true
clipName	string	Optional, sets the requested clip name to record to, when "recording" attribute is set to true.	ClipName.mov

Response
204 - Recording state updated.
400 - Failed to update recording state.

POST /transports/0/record

Start recording.

Parameters

Name	Type	Description	Example
clipName	string	Optional, provides a specific name of clip to record to.	ClipName.mov

Response
204 - Recording started.
400 - Failed to start recording.

GET /transports/0/clipIndex

Get the clip index of the currently playing clip on the timeline.

Response
200 - Clip index response.
The response is JSON.

Name	Type	Description	Example
clipIndex	number	null	The 0-based index of the clip being played on the timeline. null when there is no timeline or an empty timeline.	–

GET /transports/0/timecode

Get device timecode.

Response

200 - Timecode response.

The response is JSON.

Name	Type	Description	Example
display	string	The display timecode serialised as a string.	00:00:03:22
timeline	string	The timeline timecode serialised as a string.	00:00:03:22

GET /transports/0/timecode/source

Get timecode source selected on device.

Response

200 - Timecode source response.

The response is JSON.

Name	Type	Description	Example
timecode	string	Possible values are: Timeline, Clip.	–

GET /transports/0/recordCache

Gets information about the recording cache.

Response

200 - Current information about the recording cache.

The response is JSON.

Recording cache information.

Name	Type	Description	Example
status (required)	string	The current status of the cache. "none" means no cache is detected by the device. Possible values are: undetected, unformatted, idle, transferring, queued, recording, disabled.	idle
remainingRecordingTime	integer	The remaining recording time in seconds.	42200
transferringDevice	string	The device name of the disk the cache is currently transferring to.	ssd1

GET /transports/0/recordCache/enabled

Checks if the record cache is enabled.

Response

200 - Record cache enabled status.

The response is JSON.

Name	Type	Description	Example
enabled (required)	boolean	Is the record cache enabled?	true

PUT /transports/0/recordCache/enabled

Enables or disables the record cache. Has no effect if cache is not supported / installed / formatted.

Parameters

Name	Type	Description	Example
enabled (required)	boolean	Is the record cache enabled?	true

Response

204 - Record cache enabled / disabled was changed.

GET /transports/0/record/spillOrder

Gets media devices in order of which will next be spilled to during recording.

Response

200 - The media device spill order.

The response is JSON.

Name	Type	Description	Example
devices	array	Media devices in spill order.	–
devices[i]	object	–	–
devices[i].deviceName	string	Device name of the media device.	sd1

POST /transports/0/record/spillToNewFile

Spill recording to a new file on the active media.

Response

204 - Spilled recording to a new file on the active media.

POST /transports/0/record/spillToNextDevice

Spills recording to the next media device in the spill order or to the active media if spill order is empty.

Response

204 - Spilled recording to the next media device.

GET /transports/0/inputVideoFormat

Gets the video format of the input video signal.

Response
200 - The video format of the input video signal. "inputVideoFormat" is null when there is no timeline.
The response is JSON.

Name	Type	Description	Example
inputVideoFormat (required)	object | null	Video format, or null for no input video signal.	–
inputVideoFormat.name	string	Video format serialised as a string.	1920x1080p29.97
inputVideoFormat.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
inputVideoFormat.height	number	Height dimension of video format.	1080
inputVideoFormat.width	number	Width dimension of video format.	1920
inputVideoFormat.interlaced	boolean	Is the display format interlaced?	false

GET /transports/0/supportedInputVideoSources

Gets the currently supported input video signal sources.

Response
200 - The supported input video signal sources.
The response is JSON.

Name	Type	Description	Example
supportedInputVideoSources (required)	array	–	–
supportedInputVideoSources[i]	string	Source of video input. Possible values are: SDI, 4xSDI, HDMI, Component, Composite.	SDI

GET /transports/0/inputVideoSource

Gets the source of the input video signal.

Response
200 - The input video signal source.
The source will be one in the list from GET /transports/0/supportedInputVideoSources.
The response is JSON.

Name	Type	Description	Example
inputVideoSource (required)	string	Source of video input. Possible values are: SDI, 4xSDI, HDMI, Component, Composite.	SDI

PUT /transports/0/inputVideoSource

Sets the source of the input video signal.

Parameters

Name	Type	Description	Example
inputVideoSource (required)	string	Source of video input. Use GET /transports/0/ supportedInputVideoSources to obtain currently supported options. Possible values are: SDI, 4xSDI, HDMI, Component, Composite.	SDI

Response

204 - The source of the input video signal was set successfully.

400 - The source specified was invalid or unsupported.

GET /transports/0/clip

Get clip information about the currently recording, transferring or playing clip, if it exists.

Response

200 - Information about the clip currently being recorded, transferred or played.

The response is JSON.

Name	Type	Description	Example
clip	object | null	Media clip currently being recorded, transferred or played, or null if none exists.	–
clip.clipUniqueId	integer	Unique ID used to identify this clip.	2
clip.filePath (required)	string	Path to the file relative to the root of a mount.	Movie_0001.mp4
clip.fileSize	integer	Size of file on disk in bytes.	182003000
clip.codecFormat	object	Codec format configuration.	–
clip.codecFormat.codec	string	Codec format serialised as a string.	ProRes:HQ
clip.codecFormat.container	string	Multimedia container format.	MOV
clip.videoFormat	object	Video format configuration.	–
clip.videoFormat.name (required)	string	Video format serialised as a string.	1920x1080p29.97
clip.videoFormat.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
clip.videoFormat.height	number	Height dimension of video format.	1080
clip.videoFormat.width	number	Width dimension of video format.	1920
clip.videoFormat.interlaced	boolean	Is the display format interlaced?	false

Name	Type	Description	Example
clip.startTimecode	string	Start timecode of the clip serialised as string.	00:00:03:22
clip.durationTimecode	string	Duration of the clip in timecode format serialised as string.	00:05:03:22
clip.frameCount	integer	Number of frames in clip; duration of the clip in frames.	9120

GET /transports/0/record/filenameConfiguration

Gets filename configuration for future recordings.

Response

200 - The filename configuration used to create the clip filename for the next recording.

The response is JSON.

Configuration for filenames used in future recordings.

Name	Type	Description	Example
filenamePrefix	string	Filename prefix for future recordings. Characters not permitted in HFS+ and exFAT filenames are disallowed. Minimum length is: 1. Maximum length is: 127.	HyperDeck
appendTimestamp	boolean	If enabled, appends timestamp of format _YYMMDDHHMM after the filename prefix in future recordings.	false

PUT /transports/0/record/filenameConfiguration

Set filename configuration for future recordings.

Parameters

Configuration for filenames used in future recordings.

Name	Type	Description	Example
filenamePrefix	string	Filename prefix for future recordings. Characters not permitted in HFS+ and exFAT filenames are disallowed. Minimum length is: 1. Maximum length is: 127.	HyperDeck
appendTimestamp	boolean	If enabled, appends timestamp of format _YYMMDDHHMM after the filename prefix in future recordings.	false

Response

200 - Filename configuration for future recordings applied successfully.

400 - Provided filename configuration was invalid.

GET /transports/0/record/trigger

Gets trigger record configuration.

Response
200 - Current trigger recording configuration.

The response is JSON.

Record trigger configuration.

Name	Type	Description	Example
recordTrigger	string	When to automatically start recording. Possible values are: None, VideoStartStop, TimecodeRun.	None

PUT /transports/0/record/trigger

Sets trigger record configuration.

Parameters

Record trigger configuration.

Name	Type	Description	Example
recordTrigger	string	When to automatically start recording. Possible values are: None, VideoStartStop, TimecodeRun.	None

Response

200 - Trigger recording configuration applied successfully.

GET /system

Get device system information.

Response
200 - System summary.

The response is JSON.

The properties will be populated only with the values that are supported/implemented by the device in use.

Name	Type	Description	Example
codecFormat	object	Codec format configuration.	–
codecFormat.codec	string	Codec format serialised as a string.	ProRes:HQ
codecFormat.container	string	Multimedia container format.	MOV
videoFormat	object	Video format configuration.	–
videoFormat.name (required)	string	Video format serialised as a string.	1920x1080p29.97
videoFormat.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97

Name	Type	Description	Example
videoFormat.height	number	Height dimension of video format.	1080
videoFormat.width	number	Width dimension of video format.	1920
videoFormat.interlaced	boolean	Is the display format interlaced?	false

GET /system/product

Get device product information.

Response

200 - Device product information.

The response is JSON.

Product information.

Name	Type	Description	Example
deviceName	string	Name of device as displayed in Setup.	My Blackmagic Device
productName	string	Device's product name.	Blackmagic Device
softwareVersion	string	Software version running on device.	1.0

GET /system/supportedCodecFormats

Get the list of supported codecs.

Response
200 - List of supported codec formats.
The response is JSON.

Name	Type	Description	Example
codecs	array	–	–
codecs[i]	object	Codec format configuration.	–
codecs[i].codec	string	Codec format serialised as a string.	ProRes:HQ
codecs[i].container	string	Multimedia container format.	MOV

GET /system/codecFormat

Get the currently selected codec.

Response
200 - Current system codec format.
The response is JSON.

Codec format configuration.

Name	Type	Description	Example
codec	string	Codec format serialised as a string.	ProRes:HQ
container	string	Multimedia container format.	MOV

PUT /system/codecFormat

Set the codec. Note that some codec formats can be played back but not recorded to. For example, some products support playback but not recording in H.264 codec in MOV container. In this case, omit the "container" field when setting codec. Note that for some products that support timeline playback, you can choose any codec within a codec family (e.g. H.264, H.265, ProRes, …), and the timeline will be populated with all compatible clips with that codec. The H.264 and H.265 codec formats do not preserve the exact recorder configuration when observing the codecFormat property of a recorded clip. E.g. if a clip was recorded using "H264:High" codec format it will appear as "H264:Medium" in the response to GET /clips.

Parameters

Codec format configuration.

Name	Type	Description	Example
codec	string	Codec format serialised as a string.	ProRes:HQ
container	string	Multimedia container format.	MOV

Response

204 - The codec updated successfully.

400 - The specified codec format is unsupported.

GET /system/videoFormat

Get the current system video format, which is either the timeline video format (GET /timelines/0/videoFormat) or the input video format (GET /transports/0/inputVideoFormat) depending on transport mode.

Response

200 - Current system video format.

The response is JSON.

Name	Type	Description	Example
–	object | null	Current system video format, or null for no input video signal or no timeline.	–
.name	string	Video format serialised as a string.	1920x1080p29.97
.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
.height	number	Height dimension of video format.	1080
.width	number	Width dimension of video format.	1920
.interlaced	boolean	Is the display format interlaced?	false

PUT /system/videoFormat

Set the timeline video format. Deprecated, prefer to use PUT /timelines/0/videoFormat to set the timeline video format.

Parameters

This parameter can be one of the following types:

Name	Type	Description	Example
name (required)	string	Video format serialised as a string.	1920x1080p29.97

Name	Type	Description	Example
frameRate (required)	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
height (required)	number	Height dimension of video format.	1080
width (required)	number	Width dimension of video format.	1920
interlaced	boolean	Is the display format interlaced?	false

Response

204 - The video format updated successfully.

400 - Invalid request.

409 - Operation unsupported in the current state.

GET /system/supportedVideoFormats

Get the list of supported video formats for the current system state.

Response

200 - List of supported video formats.

The response is JSON.

List of supported video formats.

Name	Type	Description	Example
formats	array	List of video formats.	–
formats[i]	object	Video format configuration.	–
formats[i].name (required)	string	Video format serialised as a string.	1920x1080p29.97
formats[i].frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
formats[i].height	number	Height dimension of video format.	1080
formats[i].width	number	Width dimension of video format.	1920
formats[i].interlaced	boolean	Is the display format interlaced?	false

POST /system/reboot

Reboots the device.

Response
204 - The device will reboot immediately.
409 - Rebooting is not possible in the current state.

GET /system/uptime

Gets the current system uptime.

Response
200 - The current system uptime.
The response is JSON.

System uptime information.

Name	Type	Description	Example
uptimeSeconds	integer	The system uptime in seconds.	242

PUT /system/identify

Sets the identify mode. If set to true, will exit identify mode after 10 seconds.

Parameters

Name	Type	Description	Example
enabled (required)	boolean	Is the device identifying itself?	true

Response
204 - Identify updated successfully.

GET /media/workingset

Get the list of media devices currently in the working set.

Response
200 - The list of media devices in the working set.
The response is JSON.

Name	Type	Description	Example
size	integer	The fixed size of this device's working set.	1
workingset	array	The device's working set.	–
workingset[i]	object | null	Device within the working set. null if no device is present within the given working set slot.	–
workingset[i].index	integer	Index of this media in the working set.	0
workingset[i].activeDisk	boolean	True if this current item the active disk.	false
workingset[i].volume	string	Volume name.	My disk
workingset[i].deviceName	string	Device name of media device.	sd1

Name	Type	Description	Example
workingset[i]. remainingRecordTime	integer	Remaining record time using current codec and video format in seconds.	5124087
workingset[i].totalSpace	integer	Total space on media device in bytes.	9817071702016
workingset[i].remainingSpace	integer	Remaining space on media device in bytes.	7817071702016
workingset[i].clipCount	integer	Number of clips currently on the device.	12

GET /media/active

Get the currently active media device.

Response

200 - The current active media device.

The response is JSON.

The active media device, or null if there is no active media.

Name	Type	Description	Example
workingsetIndex	integer	Working set index of the active media device.	0
deviceName	string	Device name of media device.	sd1

204 - No media is currently active.

PUT /media/active

Set the currently active media device.

Parameters

Name	Type	Description	Example
workingsetIndex	integer	Working set index of the media to make active.	0

Response

204 - The active media device was set successfully.

400 - Setting the currently active media device is not possible in the current state.

GET /media/devices/doformatSupportedFilesystems

Get the list of filesystems available to format a media device.

Response

200 - The list of filesystems permitted for formatting.

The response is JSON.

Name	Type	Description	Example
–	array	List of filesystems permitted for formatting media.	['ExFAT', 'HFS']
[i]	string	Filesystem serialised as string.	ExFAT

GET /media/devices/{deviceName}

Get information about a requested device.

Parameters

Name	Type	Description	Example
{deviceName} (required)	string	Device name of the media device. Retrieved by "deviceName" member of GET /media/workingset or GET /media/active.	–

Response

200 - Information about the requested device.

The response is JSON.

Media device state.

Name	Type	Description	Example
state	string	The current state of the media device. Possible values are: None, Scanning, Mounted, Uninitialised, Formatting, RaidComponent.	Mounted

400 - Invalid device name.

404 - Device not found.

GET /media/devices/{deviceName}/doformat

Get a format key, used to format the device with a PUT request.

Parameters

Name	Type	Description	Example
{deviceName} (required)	string	Device name of the media device. Retrieved by "deviceName" member of GET /media/workingset or GET /media/active.	–

Response

200 - Format prepared.

The response is JSON.

Name	Type	Description	Example
deviceName	string	Device name of media device to format.	sd1
key	string	The key required to format this device, provide to PUT /media/devices/{deviceName}/doformat to perform format of media device.	–

400 - Cannot format the device.

404 - Device not found.

PUT /media/devices/{deviceName}/doformat

Perform a format of the specified media device.

Parameters

Name	Type	Description	Example
{deviceName} (required)	string	Device name of the media device. Retrieved by "deviceName" member of GET /media/workingset or GET /media/active.	–

Name	Type	Description	Example
key	string	The key used to format this device, retrieved from prepare format media request GET /media/devices/{deviceName}/doformat. Format key provided cannot be reused after successful format.	–
filesystem	string	Filesystem to format to. Supported filesystems can be retrieved with GET /media/devices/doFormatSupportedFilesystems.	ExFAT
volume	string	Volume name to set for the disk after format.	–

Response
204 - Format successful.
400 - Cannot format the device, invalid filesystem or key.
404 - Device not found.

GET /media/external

Gets the list of present external media devices. Media devices here can be used in all other endpoints that accept the "deviceName" parameter.

Response
200 - The list of present external media devices.
The response is JSON.

Name	Type	Description	Example
devices (required)	array	–	–
devices[i]	object	Media device.	–
devices[i].volume	string	Volume name.	My disk
devices[i].deviceName (required)	string	Device name of media device.	sd1
devices[i].remainingRecordTime	integer	Remaining record time using current codec and video format in seconds.	5124087
devices[i].totalSpace	integer	Total space on media device in bytes.	9817071702016
devices[i].remainingSpace	integer	Remaining space on media device in bytes.	7817071702016
devices[i].clipCount	integer	Number of clips currently on the device.	12

GET /media/external/selected

Gets the current selected external media device.

Response

200 - The selected external media device.

The response is JSON.

Name	Type	Description	Example
selected (required)	object	null	The currently selected external media device. If null, no external media device is selected.	–
selected.deviceName	string	Device name of the media device.	sd1

404 - No selected external media has been selected.

PUT /media/external/selected

Sets the current selected external media device.

Parameters

Name	Type	Description	Example
selected (required)	object	Media device to make the selected external media device.	–
selected.deviceName	string	Device name of the media device.	sd1

Response

204 - The selected external media device was set successfully.

GET /media/nas/discovered

Gets the NAS hosts discoverable by the device.

Response

200 - The list of discovered NAS hosts.

The response is JSON.

Name	Type	Description	Example
hosts (required)	array	–	–
hosts[i]	object	NAS host.	–
hosts[i].hostName	string	The hostname of the NAS host.	Blackmagic-Cloud-Store.local
hosts[i].friendlyName	string	The friendly name of the NAS host.	Cloudstore
hosts[i].ip	string	The IP address of the NAS host.	192.168.0.24

GET /media/nas/bookmarks

Gets all NAS share bookmarks.

Response

200 - The list of NAS share bookmarks.

The response is JSON.

Name	Type	Description	Example
bookmarks (required)	array	–	–
bookmarks[i]	object	NAS bookmark.	–
bookmarks[i].url (required)	string	URL of the NAS share.	smb://Blackmagic-Cloud-Store.local/Share/folder

POST /media/nas/bookmarks

Add a new NAS share bookmark.

Parameters

Name	Type	Description	Example
url (required)	string	URL of the NAS share.	smb://Blackmagic-Cloud-Store.local/Share/folder
username	string	Optional username of NAS share. Default value is: guest.	guest
password	string	Optional password of NAS share. Default value is ""	–

Response

204 - The NAS bookmark was added successfully.

400 - The NAS bookmark could not be added.

GET /media/nas/bookmarks/{url}

Get information about a requested network share bookmark.

Parameters

Name	Type	Description	Example
{url} (required)	string	URL of network share, as returned by GET /media/nas/bookmarks. Slashes in url should be encoded as %2F	smb:%2F%2FBlackmagic-Cloud-Store.local%2FShare%2Ffolder

Response

200 - Information about the requested network share bookmark.

The response is JSON.

NAS bookmark.

Name	Type	Description	Example
url (required)	string	URL of the NAS share.	smb://Blackmagic-Cloud-Store.local/Share/folder

404 - Network share bookmark not found.

PUT /media/nas/bookmarks/{url}

Adds a bookmark with the requested URL.

Parameters

Name	Type	Description	Example
{url} (required)	string	URL of network share, as returned by GET /media/nas/ bookmarks. Slashes in url should be encoded as %2F	smb:%2F%2FBlackmagic-Cloud-Store. local%2FShare%2Ffolder

Name	Type	Description	Example
username	string	Optional username of NAS share. Default value is: guest.	guest
password	string	Optional password of NAS share. Default value is ""	–

Response
204 - The NAS bookmark has been created.
400 - The NAS bookmark could not be created.

DELETE /media/nas/bookmarks/{url}

Deletes a bookmark with the requested URL.

Parameters

Name	Type	Description	Example
{url} (required)	string	URL of the network share to be deleted. Slashes in url should be encoded as %2F	–

Response
204 - The NAS bookmark has been deleted.

GET /media/nas/selected

Gets the currently selected share bookmark.

Response
200 - Information about the selected network share bookmark.
The response is JSON.

Name	Type	Description	Example
selected (required)	object	null	Selected NAS share, null if no share selected.	–
selected.url	string	URL of the NAS share.	smb://Blackmagic-Cloud-Store.local/Share/folder

PUT /media/nas/selected

Sets the selected share bookmark to the requested bookmark, or clears the bookmark.

Parameters

Name	Type	Description	Example
selected (required)	object | null	NAS share to select, use null to clear selected NAS share.	–
selected.url	string	URL of the NAS share.	smb://Blackmagic-Cloud-Store.local/Share/folder

Response

204 - The selected NAS bookmark was set or cleared.

400 - The specified NAS bookmark is invalid.

409 - The selected NAS bookmark cannot not be set or cleared in this state.

GET /timelines/0

Get the playback timeline.

Response

200 - Playback timeline.

The response is JSON.

Name	Type	Description	Example
clips	array	–	–
clips[i]	object	Timeline clip.	–
clips[i].clipUniqueId (required)	integer	Unique identifier used to identify this media clip. If the same media clip is added to the timeline multiple times, each timeline clip has the same clipUniqueId	1
clips[i].frameCount	integer	Duration of timeline clip in frames, the number of frames in this clip on the timeline.	90000
clips[i].durationTimecode	string	Duration of the timeline clip in timecode format serialised as string. This will differ to durationTimecode reported in /clips for this clipUniqueId if clipIn or frameCount was specified when adding this clip to the timeline.	00:05:03:22
clips[i].clipIn	string	In frame offset for the clip on the timeline, where 0 is the first frame of the on-disk clip.	20
clips[i].inTimecode	string	Clip timecode of the first frame of this timeline clip serialised as string (clip startTimecode + clipIn frames).	00:00:03:22
clips[i].timelineIn	string	Timeline position of the first frame of this clip, where 0 is the first frame of the timeline.	10
clips[i].timelineInTimecode	string	Timeline timecode of the first frame of this timeline clip serialised as string.	00:00:00:10

404 - No timeline / disk available.

DELETE /timelines/0

Clear the current playback timeline. Deprecated, prefer to use POST /timelines/0/clear

Response
204 - The timeline was cleared.

POST /timelines/0

Add a clip to the timeline.

Parameters

This parameter can be one of the following types:

Add multiple media clips to the timeline with optional insertion point and clip in/out points.

Name	Type	Description	Example
insertBefore	integer	Clip(s) will be inserted before the clip at this timeline clip index, where 0 inserts to the beginning of the timeline. If omitted, inserts to the end of the timeline.	0
clips (required)	array	List of clips to add to the timeline.	–
clips[i]	object	Clip to add to the timeline, optionally cropping the clip before adding to the timeline.	–
clips[i].clipUniqueId (required)	integer	Unique ID (clipUniqueId) of the media clip to add to the timeline.	1
clips[i].clipIn	integer	Insert this clip starting from this frame within the media clip. If omitted, starts from the beginning of the clip -- frame 0.	40
clips[i].frameCount	integer	Number of frames of this clip to add to the timeline. If omitted, use the whole clip, or the rest of the clip if clipIn was specified.	40

Add multiple media clips to the timeline with optional insertion point.

Name	Type	Description	Example
insertBefore	integer	Clip(s) will be inserted before the clip at this timeline clip index, where 0 inserts to the beginning of the timeline. If omitted, inserts to the end of the timeline.	0
clips (required)	array	List of clips to add to the timeline.	–
clips[i]	integer	Unique ID (clipUniqueId) of the media clip to add to the timeline.	1

Add a single clip to the timeline with optional insertion point and clip in/out points.

Name	Type	Description	Example
insertBefore	integer	Clip(s) will be inserted before the clip at this timeline clip index, where 0 inserts to the beginning of the timeline. If omitted, inserts to the end of the timeline.	0
clips (required)	object	Clip to add to the timeline, optionally cropping the clip before adding to the timeline.	–
clips.clipUniqueId (required)	integer	Unique ID (clipUniqueId) of the media clip to add to the timeline.	1
clips.clipIn	integer	Insert this clip starting from this frame within the media clip. If omitted, starts from the beginning of the clip -- frame 0.	40
clips.frameCount	integer	Number of frames of this clip to add to the timeline. If omitted, use the whole clip, or the rest of the clip if clipIn was specified.	40

Add a single clip to the timeline with optional insertion point.

Name	Type	Description	Example
insertBefore	integer	Clip(s) will be inserted before the clip at this timeline clip index, where 0 inserts to the beginning of the timeline. If omitted, inserts to the end of the timeline.	0
clips (required)	integer	Unique ID (clipUniqueId) of the media clip to add to the timeline.	1

Response
204 - The clip was added to the timeline as specified.

POST /timelines/0/add

Add a clip to the end of the timeline. Deprecated, use POST /timelines/0 to add clips within the timeline.

Parameters
This parameter can be one of the following types:

Add one clip to the end of the timeline.

Name	Type	Description	Example
clips	integer	Unique ID (clipUniqueId) of the media clip to add to the timeline.	1

Add many clips to the end of the timeline.

Name	Type	Description	Example
clips	array	List of clipUniqueIds of clips to add to end of timeline.	[1, 2, 3, 1]
clips[i]	integer	Unique ID (clipUniqueId) of the media clip to add to the timeline.	1

Response
204 - The clip was added to the end of the timeline.

POST /timelines/0/clear

Clear the playback timeline.

Response
204 - The timeline was cleared.

DELETE /timelines/0/clips/{timelineClipIndex}

Remove the specified clip from the timeline.

Parameters

Name	Type	Description	Example
{timelineClipIndex} (required)	integer	The (0-based) timeline clip index of the clip to remove from the timeline.	0

Response
204 - The specified clip was removed from the timeline.

GET /timelines/0/playRange

Gets the current timeline play range. playRange is null if playing the whole timeline, or there is no play range.

Response
200 - The current timeline play range.
The response is JSON.

Name	Type	Description	Example
playRange (required)	object | null	Timeline play range. The play range spans frames timelineIn to timelineOut - 1. null if playing the whole timeline or if there is no play range.	–
playRange.timelineIn	integer	0-based timeline frame number of the start of the play range. If omitted, the play range starts from the start of the timeline.	10
playRange.timelineOut	integer	0-based timeline frame number of the end of the play range. If omitted, the play range ends at the end of the timeline.	20

PUT /timelines/0/playRange

Update the timeline play range.

Parameters

Set the timeline play range.

Name	Type	Description	Example
playRange (required)	object	null	Timeline play range. The play range spans frames timelineIn to timelineOut - 1. If null, clears the play range and plays the whole timeline.	–
playRange.timelineIn	integer	0-based timeline frame number of the start of the play range. If omitted, the play range starts from the start of the timeline.	10
playRange.timelineOut	integer	0-based timeline frame number of the end of the play range. If omitted, the play range ends at the end of the timeline.	20

Response

204 - The timeline play range was updated successfully.

POST /timelines/0/playRange/clear

Clears the timeline play range, sets the play range to be the whole timeline.

Response

204 - The timeline play range was cleared successfully.

GET /timelines/0/videoFormat

Gets the video format of the timeline.

Response

200 - The video format of the timeline. "videoFormat" is null when there is no timeline.

The response is JSON.

Name	Type	Description	Example
videoFormat (required)	object	null	Video format, or null for no timeline.	–
videoFormat.name	string	Video format serialised as a string.	1920x1080p29.97
videoFormat.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
videoFormat.height	number	Height dimension of video format.	1080
videoFormat.width	number	Width dimension of video format.	1920
videoFormat.interlaced	boolean	Is the display format interlaced?	false

PUT /timelines/0/videoFormat

Sets the video format of the timeline.

Parameters

This parameter can be one of the following types:

Name	Type	Description	Example
name (required)	string	Video format serialised as a string.	1920x1080p29.97

Name	Type	Description	Example
frameRate (required)	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
height (required)	number	Height dimension of video format.	1080
width (required)	number	Width dimension of video format.	1920
interlaced	boolean	Is the display format interlaced?	false

Response

204 - The timeline video format was set successfully.

400 - The requested video format was invalid.

409 - The video format cannot be changed at this time.

GET /timelines/0/defaultVideoFormat

Gets the default video format (default standard) of the timeline.

Response

200 - The default video format of the timeline.

The response is JSON.

Name	Type	Description	Example
videoFormat	object	null	Video format, or null for no timeline.	–
videoFormat.name	string	Video format serialised as a string.	1920x1080p29.97
videoFormat.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
videoFormat.height	number	Height dimension of video format.	1080
videoFormat.width	number	Width dimension of video format.	1920
videoFormat.interlaced	boolean	Is the display format interlaced?	false

PUT /timelines/0/defaultVideoFormat

Sets the default video format (default standard) of the timeline.

Parameters

This parameter can be one of the following types:

Name	Type	Description	Example
name (required)	string	Video format serialised as a string.	1920x1080p29.97

Name	Type	Description	Example
frameRate (required)	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
height (required)	number	Height dimension of video format.	1080
width (required)	number	Width dimension of video format.	1920
interlaced	boolean	Is the display format interlaced?	false

Response

204 - The default video format was set successfully.

400 - The requested default video format is invalid or unsupported.

POST /timelines/0/rebuild

Rebuilds the timeline with default rules according to the default standard.

Response

204 - The timeline was rebuilt with the default standard.

GET /clips

Get the list of clips on the active disk.

Response

200 - List of clips on the active disk.

The response is JSON.

List of media clips.

Name	Type	Description	Example
clips (required)	array	–	–
clips[i]	object	Media clip.	–
clips[i].clipUniqueId (required)	integer	Unique ID used to identify this clip.	2
clips[i].filePath	string	Path to the file relative to the root of a mount.	Movie_0001.mp4
clips[i].fileSize	integer	Size of file on disk in bytes.	182003000
clips[i].codecFormat	object	Codec format configuration.	–
clips[i].codecFormat.codec	string	Codec format serialised as a string.	ProRes:HQ

Name	Type	Description	Example
clips[i].codecFormat.container	string	Multimedia container format.	MOV
clips[i].videoFormat	object	Video format configuration.	–
clips[i].videoFormat.name (required)	string	Video format serialised as a string.	1920x1080p29.97
clips[i].videoFormat.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
clips[i].videoFormat.height	number	Height dimension of video format.	1080
clips[i].videoFormat.width	number	Width dimension of video format.	1920
clips[i].videoFormat.interlaced	boolean	Is the display format interlaced?	false
clips[i].startTimecode	string	Start timecode of the clip serialised as string.	00:00:03:22
clips[i].durationTimecode	string	Duration of the clip in timecode format serialised as string.	00:05:03:22
clips[i].frameCount	integer	Number of frames in clip; duration of the clip in frames.	9120

404 - There is no active disk.

GET /clips/devices/{deviceName}

Get the list of clips on the specified media device.

Parameters

Name	Type	Description	Example
{deviceName} (required)	string	Device name of the media device. Retrieved by "deviceName" member of GET /media/workingset or GET /media/active.	–

Response

200 - List of clips on the specified media device.

The response is JSON.

List of media clips.

Name	Type	Description	Example
clips (required)	array	–	–
clips[i]	object	Media clip.	–
clips[i].clipUniqueId (required)	integer	Unique ID used to identify this clip.	2
clips[i].filePath	string	Path to the file relative to the root of a mount.	Movie_0001.mp4
clips[i].fileSize	integer	Size of file on disk in bytes.	182003000
clips[i].codecFormat	object	Codec format configuration.	–
clips[i].codecFormat.codec	string	Codec format serialised as a string.	ProRes:HQ

Name	Type	Description	Example
clips[i].codecFormat.container	string	Multimedia container format.	MOV
clips[i].videoFormat	object	Video format configuration.	–
clips[i].videoFormat.name (required)	string	Video format serialised as a string.	1920x1080p29.97
clips[i].videoFormat.frameRate	string	Frame rate. Possible values are: 23.98, 24.00, 24, 25.00, 25, 29.97, 30.00, 30, 47.95, 48.00, 48, 50.00, 50, 59.94, 60.00, 60, 119.88, 120.00, 120.	29.97
clips[i].videoFormat.height	number	Height dimension of video format.	1080
clips[i].videoFormat.width	number	Width dimension of video format.	1920
clips[i].videoFormat.interlaced	boolean	Is the display format interlaced?	false
clips[i].startTimecode	string	Start timecode of the clip serialised as string.	00:00:03:22
clips[i].durationTimecode	string	Duration of the clip in timecode format serialised as string.	00:05:03:22
clips[i].frameCount	integer	Number of frames in clip; duration of the clip in frames.	9120

400 - Device not found.
500 - Failed to get clip info.

GET /audio/supportedRecordFormats

Gets supported record audio formats according to the current device configuration.

Response
200 - Supported record audio formats.
The response is JSON.

Supported record audio formats.

Name	Type	Description	Example
supportedRecordFormats	array	Supported record audio formats.	–
supportedRecordFormats[i]	object	Supported record audio format	–
supportedRecordFormats[i].format (required)	object	Record audio format.	–
supportedRecordFormats[i].format.codec (required)	string	Audio codec. Possible values are: PCM, AAC.	PCM
supportedRecordFormats[i].format.numChannels (required)	integer	Number of audio channels. Possible values are: 2, 4, 8, 16, 32, 64.	16
supportedRecordFormats[i].available (required)	boolean	Indicates whether this record audio format is compatible with current recording configuration and video format	true

GET /audio/recordFormat

Gets configured record audio format.

Response

200 - The configured record audio format.

The response is JSON.

Record audio format.

Name	Type	Description	Example
codec (required)	string	Audio codec. Possible values are: PCM, AAC.	PCM
numChannels (required)	integer	Number of audio channels. Possible values are: 2, 4, 8, 16, 32, 64.	16

PUT /audio/recordFormat

Sets configured record audio format.

Parameters

Record audio format.

Name	Type	Description	Example
codec (required)	string	Audio codec. Possible values are: PCM, AAC.	PCM
numChannels (required)	integer	Number of audio channels. Possible values are: 2, 4, 8, 16, 32, 64.	16

Response

204 - Record audio format set successfully.

400 - Requested record audio format was invalid.

409 - Failed to set requested record audio format.

GET /monitoring/display

Retrieve a list of all display names.

Response

200 - Returns a list of display names.

The response is JSON.

Name	Type	Description	Example
displays	array	List of display names available.	['LCD1', 'SDIA', 'HDMI']
displays[i]	string	–	–

GET /monitoring/{displayName}/cleanFeed

Get the clean feed enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Response

200 - Clean feed state.

The response is JSON.

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

404 - Display name not found.

PUT /monitoring/{displayName}/cleanFeed

Set the clean feed enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

Response

204 - Clean feed enabled/disabled successfully.

400 - Invalid input.

422 - Unable to process the contained instructions.

GET /monitoring/{displayName}/displayLUT

Get the display LUT enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Response

200 - Display lut state.

The response is JSON.

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

400 - Invalid display name.

404 - Display name not found.

PUT /monitoring/{displayName}/displayLUT

Set the display LUT enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

Response

204 - Display LUT enabled/disabled successfully.

400 - Invalid input.

422 - Unprocessable Entity - Unable to process the contained instructions.

GET /monitoring/{displayName}/zebra

Get the zebra enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Response

200 - Zebra enabled state.

The response is JSON.

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

404 - Display name not found.

PUT /monitoring/{displayName}/zebra

Set the zebra enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

Response

204 - Zebra enabled/disabled successfully.

400 - Invalid input.

422 - Unable to process the contained instructions.

GET /monitoring/{displayName}/focusAssist

Get the focus assist enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Response

200 - Focus assist state.

The response is JSON.

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

404 - Display name not found.

PUT /monitoring/{displayName}/focusAssist

Set the focus assist enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Name	Type	Description	Example
mode	string	Mode of focus assist, e.g., 'Peak' or 'ColoredLines'. Possible values are: Peak, ColoredLines.	Peak
color	string	Color of the focus assist highlight. Possible values are: Red, Green, Blue, White, Black.	Red
intensity	integer	Intensity of the focus assist highlight (0-100).	75

Response

204 - Focus assist settings updated successfully.

400 - Invalid input or configuration.

422 - Unable to process the contained instructions.

GET /monitoring/focusAssist

Get the focus assist settings.

Response

200 - Focus assist settings.

The response is JSON.

Name	Type	Description	Example
mode	string	Mode of focus assist, e.g., 'Peak' or 'ColoredLines'. Possible values are: Peak, ColoredLines.	Peak
color	string	Color of the focus assist highlight. Possible values are: Red, Green, Blue, White, Black.	Red
intensity	integer	Intensity of the focus assist highlight (0-100).	75

404 - Display name not found.

PUT /monitoring/focusAssist

Set the focus assist settings.

Parameters

Name	Type	Description	Example
mode	string	Mode of focus assist, e.g., 'Peak' or 'ColoredLines'. Possible values are: Peak, ColoredLines.	Peak
color	string	Color of the focus assist highlight. Possible values are: Red, Green, Blue, White, Black.	Red
intensity	integer	Intensity of the focus assist highlight (0-100).	75

Response

204 - Focus assist settings updated successfully.

400 - Invalid input or configuration.

422 - Unable to process the contained instructions.

GET /monitoring/{displayName}/frameGuide

Get the frame guide enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Response

200 - Returns the frame guide enable state.

The response is JSON.

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

404 - Display not found.

PUT /monitoring/{displayName}/frameGuide

Set the frame guide enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

Response

204 - Frame guide state updated successfully.

422 - Unable to update the frame guide state.

GET /monitoring/frameGuideRatio

Get the current frame guide ratio.

Response

200 - Returns the current frame guide ratio.

The response is JSON.

Name	Type	Description	Example
ratio	string	The frame guide ratio.	4:3

PUT /monitoring/frameGuideRatio

Set the frame guide ratio.

Parameters

Name	Type	Description	Example
ratio	string	The frame guide ratio.	4:3

Response
204 - Frame guide ratio updated successfully.
422 - Unable to update the frame guide ratio.

GET /monitoring/frameGuideRatio/presets

Get the presets for frame guide ratios.

Response
200 - Returns a list of preset frame guide ratios.
The response is JSON.

Name	Type	Description	Example
presets	array	–	['4:3', '16:9', '2.35:1']
presets[i]	string	A frame guide ratio.	–

GET /monitoring/{displayName}/frameGrids

Get the frame grids enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Response
200 - Returns the frame grids enable state.
The response is JSON.

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

404 - Display not found.

PUT /monitoring/{displayName}/frameGrids

Set the frame grids enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

Response

204 - Frame grids state updated successfully.

422 - Unable to update the frame grids state.

GET /monitoring/frameGrids

Get the global frame grids settings.

Response

200 - Returns the current frame grids settings.

The response is JSON.

Name	Type	Description	Example
frameGrids	array	List of frame grids enabled.	['Thirds', 'Crosshair']
frameGrids[i]	string	Possible values are: Thirds, Crosshair, Dot, Horizon.	–

PUT /monitoring/frameGrids

Set the global frame grids settings.

Parameters

Name	Type	Description	Example
frameGrids	array	List of frame grids enabled.	['Thirds', 'Crosshair']
frameGrids[i]	string	Possible values are: Thirds, Crosshair, Dot, Horizon.	–

Response

204 - Frame grids settings updated successfully.

400 - Invalid input, check the number of frame grids or values.

422 - Unable to update the frame grids settings.

GET /monitoring/{displayName}/falseColor

Get the false color enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Response

200 - Returns the false color enable state.

The response is JSON.

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

404 - Display not found.

PUT /monitoring/{displayName}/falseColor

Set the false color enable state for a specific display.

Parameters

Name	Type	Description	Example
{displayName} (required)	string	Name of the display. Obtainable from /monitoring/display which returns a list of displayNames.	–

Name	Type	Description	Example
enabled	boolean	Indicates if the feature is enabled.	true

Response

204 - False color state updated successfully.

422 - Unable to update the false color state.

GET /monitoring/zebra

Gets the current zebra level.

Response

200 - Returns the current zebra level.

The response is JSON.

Name	Type	Description	Example
highlight (required)	object	–	–
highlight.level (required)	integer	Zebra level.	50

PUT /monitoring/zebra

Set the zebra level.

Parameters

Name	Type	Description	Example
highlight (required)	object	–	–
highlight.level (required)	integer	Zebra level.	50

Response
204 - Zebra level updated successfully.
400 - Invalid request or zebra level.
500 - Unable to update the zebra level.

GET /monitoring/supportedZebraLevels

Gets the supported zebra levels.

Response
200 - Returns a list of supported zebra levels.
The response is JSON.

Name	Type	Description	Example
levels	array	–	[40, 75, 100]
levels[i]	integer	A valid zebra level.	–

GET /event/list

Get the list of events that can be subscribed to using the websocket API.

Response
200 - Websocket API events list.
The response is JSON.

Name	Type	Description	Example
events	array	List of events that can be subscribed to using the websocket API.	–
events[i]	string	–	–

Notification websocket - 1.0.0

Service that notifies subscribers of device state changes.

Subscribe (The messages from the server/device)

Response Message (JSON)

Name	Type	Description
.data	object	–
.data.action	string	Possible values are: subscribe, unsubscribe, listSubscriptions, listProperties, websocketOpened .
.data.properties	array	–
.data.properties[i]	string	Device property that the user can subscribe to. The user can either choose a value from the predefined enum, or provide a wildcard string. Possible values are: /media/workingset, /media/active, /system, /system/codecFormat, /system/videoFormat, /timelines/0, /transports/0, /transports/0/stop, /transports/0/play, /transports/0/playback, /transports/0/record, /transports/0/timecode, /transports/0/timecode/source, /transports/0/clipIndex, /media/external, /media/external/selected, /transports/0/inputVideoSource, /transports/0/inputVideoFormat, /timelines/0/videoFormat, /media/nas/discovered, /media/nas/bookmarks .
.data.values	object	An object with property names as the key and a property value as json. Check the next section for a the device properties and their return values.
.data.success	boolean	–
.type	string	Possible values are: response .
.id	number	Optional parameter that repeats the id in the output for tracking messages

Event Message (JSON)

.data	object	–
.data.action	string	Possible values are: propertyValueChanged .
.data.property	string	Device property that the user can subscribe to. The user can either choose a value from the predefined enum, or provide a wildcard string. Possible values are: /media/workingset, /media/active, /system, /system/codecFormat, /system/videoFormat, /timelines/0, /transports/0, /transports/0/stop, /transports/0/play, /transports/0/playback, /transports/0/record, /transports/0/timecode, /transports/0/timecode/source, /transports/0/clipIndex, /media/external, /media/external/selected, /transports/0/inputVideoSource, /transports/0/inputVideoFormat, /timelines/0/videoFormat, /media/nas/discovered, /media/nas/bookmarks .
.data.value	object	An object with property names as the key and a property value as json. Check the next section for a the device properties and their return values.
.type	string	Possible values are: event .

Publish (The messages that user can send to the server/device)

Response Message (JSON)

Name	Type	Description
.data	object	–
.data.action	string	Possible values are: subscribe, unsubscribe, listSubscriptions, listProperties, websocketOpened .
.data.properties	array	–
.data.properties[i]	string	Device property that the user can subscribe to. The user can either choose a value from the predefined enum, or provide a wildcard string. Possible values are: /media/workingset, /media/active, /system, /system/codecFormat, /system/videoFormat, /timelines/0, /transports/0, /transports/0/stop, /transports/0/play, /transports/0/playback, /transports/0/record, /transports/0/timecode, /transports/0/timecode/source, /transports/0/clipIndex, /media/external, /media/external/selected, /transports/0/inputVideoSource, /transports/0/inputVideoFormat, /timelines/0/videoFormat, /media/nas/discovered, /media/nas/bookmarks .
.data.values	object	An object with property names as the key and a property value as json. Check the next section for a the device properties and their return values.
.data.success	boolean	
.type	string	Possible values are: response .
.id	number	Optional parameter that repeats the id in the output for tracking messages

/media/workingset

The value JSON returned via the eventResponse when the /media/workingset property changes on the device:

Name	Type	Description
size	integer	The fixed size of this device's working set
workingset (required)	array	–
workingset[i]	object	–
workingset[i].index	integer	Index of this media in the working set
workingset[i].activeDisk	boolean	Is this current item the active disk
workingset[i].volume	string	Volume name
workingset[i].deviceName	string	Internal device name of this media device
workingset[i].remainingRecordTime	integer	Remaining record time using current codec and video format in seconds
workingset[i].totalSpace	integer	Total space on media device in bytes
workingset[i].remainingSpace	integer	Remaining space on media device in bytes
workingset[i].clipCount	integer	Number of clips currently on the device

/media/active

The value JSON returned via the eventResponse when the /media/active property changes on the device:

Name	Type	Description
.workingsetIndex	integer	Working set index of the active media device
.deviceName	string	Internal device name of this media device

/system

The value JSON returned via the eventResponse when the /system property changes on the device:

Name	Type	Description
.codecFormat	object	Currently selected codec
.codecFormat.codec	string	Currently selected codec
.codecFormat.container	string	Multimedia container format
.videoFormat	string	Name of the video format

/system/codecFormat

Currently selected codec

The value JSON returned via the eventResponse when the /system/codecFormat property changes on the device:

Name	Type	Description
.codec	string	Currently selected codec
.container	string	Multimedia container format

/system/videoFormat

Name of the video format

The value JSON returned via the eventResponse when the /system/videoFormat property changes on the device:

Name	Type	Description

/timelines/0

The value JSON returned via the eventResponse when the /timelines/0 property changes on the device:

Name	Type	Description
.clips	array	–
.clips[i]	object	–
.clips[i].clipUniqueId	integer	Unique identifier used to identify this media clip. If the same media clip is added to the timeline multiple times, each timeline clip has the same clipUniqueId
.clips[i].frameCount	integer	Duration of timeline clip in frames, the number of frames in this clip on the timeline
.clips[i].durationTimecode	string	Duration of the timeline clip in timecode format serialised as string. This will differ to durationTimecode reported in /clips for this clipUniqueId if clipIn or frameCount was specified when adding this clip to the timeline.
.clips[i].clipIn	string	In frame offset for the clip on the timeline, where 0 is the first frame of the on-disk clip
.clips[i].inTimecode	string	Clip timecode of the first frame of this timeline clip serialised as string (clip startTimecode + clipIn frames)
.clips[i].timelineIn	string	Timeline position of the first frame of this clip, where 0 is the first frame of the timeline
.clips[i].timelineInTimecode	string	Timeline timecode of the first frame of this timeline clip serialised as string

/transports/0

The value JSON returned via the eventResponse when the /transports/0 property changes on the device:

Name	Type	Description
.mode	string	Transport mode Possible values are: InputPreview, InputRecord, Output .

/transports/0/stop

true when transport mode is InputPreview or when in Output mode and speed is 0

The value JSON returned via the eventResponse when the /transports/0/stop property changes on the device:

Name	Type	Description

/transports/0/play

True when transport is in Output mode and speed is non-zero

The value JSON returned via the eventResponse when the /transports/0/play property changes on the device:

Name	Type	Description

/transports/0/playback

The value JSON returned via the eventResponse when the /transports/0/playback property changes on the device:

Name	Type	Description
.type	string	Possible values are: Play, Jog, Shuttle, Var .
.loop	boolean	When true playback loops from the end of the timeline to the beginning of the timeline
.singleClip	boolean	When true playback loops from the end of the current clip to the beginning of the current clip
.speed	number	Playback speed, 1.0 for normal forward playback
.position	integer	Playback position on the timeline in units of video frames

/transports/0/record

The value JSON returned via the eventResponse when the /transports/0/record property changes on the device:

Name	Type	Description
.recording	boolean	Is transport in Input Record mode

/transports/0/timecode

The value JSON returned via the eventResponse when the /transports/0/timecode property changes on the device:

Name	Type	Description
display	string	The display timecode serialised as a string.
timeline	string	The timeline timecode serialised as a string.

/transports/0/timecode/source

The value JSON returned via the eventResponse when the /transports/0/timecode/source property changes on the device:

Name	Type	Description
.timecode	string	Possible values are: Timeline, Clip .

/transports/0/clipIndex

The value JSON returned via the eventResponse when the /transports/0/clipIndex property changes on the device:

Name	Type	Description
.clipIndex	number	The 0-based index of the clip being played on the timeline. null when there is no timeline or an empty timeline.

/media/external

The value JSON returned via the eventResponse when the /media/external property changes on the device:

Name	Type	Description
.volume	string	Volume name
.deviceName	string	Name of media device
.remainingRecordTime	integer	Remaining record time using current codec and video format in seconds
.totalSpace	integer	Total space on media device in bytes
.remainingSpace	integer	Remaining space on media device in bytes
.clipCount	integer	Number of clips currently on the device

/media/external/selected

The value JSON returned via the eventResponse when the /media/external/selected property changes on the device:

Name	Type	Description
.deviceName	string	Internal device name of this media device

/transports/0/inputVideoSource

The value JSON returned via the eventResponse when the /transports/0/inputVideoSource property changes on the device:

Name	Type	Description
.inputVideoSource	string	Source of video input, use GET /transports/0/supportedInputVideoSources to obtain currently supported options. Possible values are: SDI, HDMI, Component, Composite .

/transports/0/inputVideoFormat

The value JSON returned via the eventResponse when the /transports/0/inputVideoFormat property changes on the device:

Name	Type	Description
.inputVideoFormat	string	Name of the video format

/timelines/0/videoFormat

The value JSON returned via the eventResponse when the /timelines/0/videoFormat property changes on the device:

Name	Type	Description
.videoFormat	string	Name of the video format

/media/nas/discovered

The value JSON returned via the eventResponse when the /media/nas/discovered property changes on the device:

Name	Type	Description
.hostName	string	Hostname of external network drive
.friendlyName	string	Name of external network drive
.ip	string	IP Address of external network drive

/media/nas/bookmarks

The value JSON returned via the eventResponse when the /media/nas/bookmarks property changes on the device:

Name	Type	Description
.hosts	array	
.hosts[i]	object	
.hosts[i].url	string	URL associated with bookmark