Video/Audio

SUNAPI

v2.5.7

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1 Overview

1.1 Description

This document describes how to request and configure settings for HTTP-based video streaming using SUNAPI. It also explains the RTSP (Real Time Streaming Protocol) API for video streaming.

SUNAPI consists of **video.cgi** and **media.cgi** for video streaming over HTTP; video.cgi requests JPEG image or MJPEG video, and media.cgi configures the video and audio settings.

video.cgi uses the following submenus to request images and video:

- **snapshot**: Requests JPEG images with the specified settings.
- **stream**: Requests MJPEG video with the specified settings.
- **thumbnail**: Requests the thumbnail snapshot of a recorded data for the requested duration in NVR.
-

media.cgi uses the following submenus to configure video and audio:

- **videosource**: Configures the video source settings,
- **videooutput**: Configures the video output settings.
- **videoprofilepolicy**: Configures the policy settings of the video profile.
- **videoprofile**: Configures the video profile settings.
- **audioinput**: Configures the input settings of the audio source.
- **audiooutput**: Configures the output settings of the audio source.
- **streamuri**: Requests the streaming URI for the profile.
- **sessionkey**: Request the session key settings.
- **multicast**: Controls the multicast operation.
- **videocodecinfo**: Requests the video codec capabilities.
- **wisestream**: Configures the WiseStream settings.
- **camerapasswordchange**: Applies the new password for all connected cameras.
- **mediaoptions**: Requests the media options available in the device.
- **Setsynchronizationpoint:** Requests the intra frame for the given profile.
- **videosourceoptions:** Provides different source settings that are possible for a video source
- **eqsettings:** Auto video input settings for the encoder
- **cameraregister:** Allows camera registration in NVR and decoder
- **autoregister:** Allows multiple cameras at the same time
- **cameradiscovery:** Allows the discovery of cameras in the network
- **cameraconnection**: Allows a test of camera registration in NVR and decoder
- **videoencoderinstances**: Requests the maximum streaming counts for a device

2 Video/Audio Setting

2.1 Snapshot

2.1.1 Description

The `snapshot` submenu requests JPEG images.

Access level

Action	Camera	NVR	Encoder
view	Guest	User	Guest

2.1.2 Syntax

```
http://<Device IP>/stw-cgi/video.cgi?msubmenu=snapshot&action=<value>[&<parameter>=<value>]
```

2.1.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	Channel	REQ	<int>	Channel ID A network camera uses '0' for channel ID.
	Profile	REQ	<int>	Profile number CAMERA ONLY ENCODER ONLY

2.1.4 Examples

2.1.4.1 Requesting JPEG image

REQUEST

```
http://<Device IP>/stw-cgi/video.cgi?msubmenu=snapshot&action=view
```

The following request example is for NVR only.

REQUEST

```
http://<Device IP>/stw-cgi/video.cgi?msubmenu=snapshot&action=view&Channel=5
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: image/jpeg
Content-length: <image size>
<Body>
```

```
<JPEG image data>
```

2.2 Stream

2.2.1 Description

The `stream` submenu requests real-time video using the HTTP protocol.

> **Note**
> This chapter applies to network camera and encoder only.

Access level

Action	Camera	Encoder
view	Guest	Guest

2.2.2 Syntax

```
http://<Device IP>/stw-cgi/video.cgi?msubmenu=stream&action=<value>[&<parameter>=<value>]
```

2.2.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	Profile	REQ	<int>	Profile number Only the MJPEG profile can be requested.
	CodecType	REQ	<enum> `MJPEG`	Video codec type
	Resolution	REQ	<enum>	Video resolution
	FrameRate	REQ	<int>	Video encoding frame rate
	CompressionLevel	REQ	<int>	Video encoding compression level The higher the value of **`CompressionLevel`**, the greater the compression rate and the lower the quality of the video. **Note** This value will be adjusted if set out of range of the camera.
	Channel	REQ	<int>	Channel ID

2.2.4 Examples

2.2.4.1 Requesting MJPEG stream

Getting MJPEG stream with resolution of 800x450, frame rate of 15 and compression level of 10

REQUEST

```
http://<Device IP>/stw-cgi/video.cgi?msubmenu=stream&action=view&Profile=1&CodecType=MJPEG&Resolution=800x450&FrameRate=15&CompressionLevel=10
```

2.3 Thumbnail

2.3.1 Description

The **thumbnail** submenu is used to get the thumbail image from the recorded data at regular interval as a single image.

> **Note**
> This chapter applies to NVR only.

Access level

Action	NVR
view	User

2.3.2 Syntax

```
http://<Device IP>/stw-
cgi/video.cgi?msubmenu=thumbnail&action=<value>[&<parameter>=<value>]
```

2.3.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	Channel	REQ	<int>	Channel for which a thumbnail is requested
	FromDate	REQ	<string>	From date in UTC format YYYY-MM-DDTHH:MM:SSZ
	ToDate	REQ	<string>	To date in UTC format YYYY-MM-DDTHH:MM:SSZ
	Width	REQ	<int>	Width of each thumbnail in the grid
	Height	REQ	<int>	Height of each thumbnail in the grid
	Column	REQ	<int>	Number of columns in the thumbnail image grid
	Row	REQ	<int>	Number of rows in the thumbnail image grid
	OverlappedID	REQ	<int>	Recording overlapped ID

2.3.4 Examples

2.3.4.1 Requesting a thumbnail

Getting a thumbnail with each grid's image size 160x120 and total grid size of 10x10

REQUEST

```
http://<Device IP>/stw-
cgi/video.cgi?msubmenu=thumbnail&action=view&Channel=0&FromDate=2020-07-
07T08:00:00Z&ToDate=2020-07-
07T16:00:00Z&Width=160&Height=120&OverlappedID=100&Row=10&Column=10
```

2.4 Video Source

2.4.1 Description

The `videosource` submenu configures and views video source settings.

Access level

Action	Camera	NVR	Encoder	Decoder
view	Guest	User	Guest	User
set	Admin	User	Admin	User
add	Admin	-	-	-
remove	Admin	-	-	-

2.4.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=<value>[&<parameter>=<value>]
```

2.4.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the video source settings.
	Channel	REQ	<csv>	Channel ID list
	VideoSourceToken	RES	<string>	Video source token CAMERA ONLY
	Type	RES	<enum> `NTSC`, `PAL`	Video source type
	State	RES	<enum> `On`, `Deactive`	State (read-only for encoder) • `On`: when camera is connected, • `Deactive`: when camera not connected. ENCODER ONLY
	Fixed	RES	<bool>	Returns `True` if the target channel can't be modified. Some fisheye models that support 'SupportChannelExpansionFeatrue' als o support channel settings like adding, deleting, or changing view type. Channels that support those features present Fixed parameter as `False`. FISHEYE ONLY
set	Channel	REQ, RES	<int>	Channel ID
	SensorCaptureSize	REQ, RES	<enum> `2M`, `3M`	Capture size (read-only for NVR) The value may vary depending on the model. Please check the device attributes using attributes.cgi.
	VideoType	REQ, RES	<enum>	Video Type

			NTSC, PAL, AHD, TVI, CVI, CVBS	The value may vary depending on the model. Please check the device attributes using attributes.cgi. ENCODER ONLY
	VideoMode	REQ, RES	<enum> Auto, Manual, JPMode	Video Mode The value may vary depending on the model. Please check the device attributes using attributes.cgi. ENCODER ONLY
	SensorCaptureFrameRate	REQ, RES	<enum> 20, 25, 30, 50, 60	Capture frame rate The number of frames that a camera sensor captures in one second. CAMERA ONLY
	Name	REQ, RES	<string>	Name NVR ONLY
	State	REQ, RES	<enum> On, Off, Covert1, Covert2, Deactive	State NVR ONLY
	ViewType	REQ	<enum> QuadView, DoublePanorama, Panorama, QuadView.1, QuadView.2, QuadView.3, QuadView.4	Tries to change target channel's view type. If this command works, profiles for that channel would be re-gererated according to changed ViewType. This parameter is applicable only for Not Fixed Channel. FISHEYE ONLY
add	ViewType	REQ	<csv> QuadView, DoublePanorama, Panorama, QuadView.1, QuadView.2, QuadView.3, QuadView.4	Tries to make a new channel with selected view type. User can make multiple channels at once using csv values. If this command works, profiles for new channel would be gererated according to selected ViewType. This parameter is applicable only for Not Fixed Channel. FISHEYE ONLY
remove	Channel	REQ	<enum> All	Tries to remove all Not Fixed Channel created before. FISHEYE ONLY

2.4.4 Examples

2.4.4.1 Getting video source settings

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.SensorCaptureSize=2M
Channel.0.SensorCaptureFrameRate=30
Channel.0.VideoSourceToken=VideoSourceToken-01
Channel.0.VideoType=CVI
Channel.0.VideoMode=Auto
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "VideoSources": [
    {
      "Channel": 0,
      "SensorCaptureSize": "2M",
      "SensorCaptureFrameRate": "30",
      "VideoSourceToken": "VideoSourceToken-01"
      "VideoType": "CVI",
      "VideoMode": "Auto"
    }
  ]
}
```

The following response example is for NVR only.

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Type=NTSC
Channel.0.SensorCaptureSize=Unknown
Channel.0.Name=Cam 01
Channel.0.State=On
Channel.1.Type=NTSC
Channel.1.SensorCaptureSize=Unknown
Channel.1.Name=Cam 02
Channel.1.State=On
...
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "VideoSources": [
    {
      "Channel": 0,
      "Type": "NTSC",
      "SensorCaptureSize": "Unknown",
      "Name": "CAM 01",
      "State": "On"
    },
```

```
    {
      "Channel": 1,
      "Type": "NTSC",
      "SensorCaptureSize": "Unknown",
      "Name": "CAM 02",
      "State": "On"
    }
  ]
}
...
```

2.4.4.2 Setting a sensor to capture 25 frames per second

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=set&SensorCaptureFrameRate=25
```

2.4.4.3 Setting sensor capture size to 12M

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=set&SensorCaptureSize=12M
```

2.4.4.4 Setting a video type to CVI and video mode to Auto

The following example is for encoder only.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=set&Channel=0&VideoType=CVI&VideoMode=Auto
```

2.4.4.5 Changing a view type from QuadView to SinglePanorama to Channel 2.

The following example is for fisheye only.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=set&Channel=2&ViewMode=Panorama
```

2.4.4.6 Adding multiple channels

The following example is for fisheye only.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=add&ViewType=Panorama,QuadView
```

2.4.4.7 Removing all generated channels

The following example is for fisheye only.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=remove&Channel=All
```

2.5 Video Output

2.5.1 Description

The `videooutput` submenu configures and views the video output settings.

> **Note**
> This chapter applies to network cameras only.

Access level

Action	Camera
view	Admin
set	Admin

2.5.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videooutput&action=<value>[&<parameter>=<value>]
```

2.5.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the video output settings.
	Channel	REQ	<csv>	Channel ID list MULTI DIRECTION CAMERA ONLY
	RebootRequired	RES	<bool>	Returns `True` if a device should reboot after video output setting has been changed. CAMERA ONLY
set	Channel	REQ, RES	<int>	Channel ID MULTI DIRECTION CAMERA ONLY
	Type	REQ, RES	<enum> `NTSC`, `PAL`, `HDMI_1080p`, `HDMI_720p`	Video output type
	Enable	REQ, RES	<bool> `True`, `False`	Enables or disables video output

2.5.4 Examples

2.5.4.1 Getting video output settings

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videooutput&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Type=NTSC
Channel.0.Enable=True
```

```
Channel.0.RebootRequired=True
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoOutputs": [
        {
            "Channel": 0,
            "Type": "NTSC",
            "Enable": true,
            "RebootRequired": true
        }
    ]
}
```

2.5.4.2 Setting video output type to NTSC

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videooutput&action=set&Type=NTSC&Channel=0
```

2.6 Video-Profile Policy

2.6.1 Description

The `videoprofilepolicy` submenu configures and views the default, record and email profile settings.

Access level

Action	Camera	NVR	Encoder
view	Admin	User	Admin
set	Admin	User	Admin

2.6.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofilepolicy&action=<value>[&<parameter>=<value>]
```

2.6.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the video-profile policy settings
	Channel	REQ	<csv>	Channel ID NVR ONLY MULTI DIRECTION CAMERA ONLY
set	Channel	REQ, RES	<int>	Channel ID
	LiveMode	REQ, RES	<enum> `Auto`, `Manual`, `Record`	Live mode setting NVR ONLY
	DefaultProfile	REQ, RES	<int>	Default profile index CAMERA ONLY ENCODER ONLY
	EventProfile	REQ, RES	<int>	Event profile index Only the MJPEG codec is used for the Event profile. CAMERA ONLY ENCODER ONLY
	RecordProfile	REQ, RES	<int>	Recording profile index MPEG4 is not allowed for the Record profile.
	NetworkProfile	REQ, RES	<int>	Network profile number NVR ONLY
	LiveProfile	REQ, RES	<int>	Live profile number NVR ONLY

2.6.4 Examples

2.6.4.1 Getting video profile policy settings

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofilepolicy&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.DefaultProfile=2
Channel.0.EventProfile=1
Channel.0.RecordProfile=1
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "VideoProfilePolicies": [
    {
      "Channel": 0,
      "DefaultProfile": 2,
      "EventProfile": 1,
      "RecordProfile": 1
    }
  ]
}
```

The following response example is for NVR only.

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.NetworkProfile=4
Channel.0.LiveProfile=4
Channel.0.RecordProfile=2
Channel.0.LiveMode=Auto
...
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
"VideoProfilePolicies":[{
    "Channel":      0,
    "NetworkProfile": 4,
    "LiveProfile": 4,
    "RecordProfile": 2,
    "LiveMode":     "Auto"
}]
...
```

```
}
```

2.6.4.2 Setting the profile policy

Setting the default profile to 1, event profile to 1 and record profile to 2

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofilepolicy&action=set&DefaultProfile=1&EventProfile=1&R
ecordProfile=2
```

The following request example is for NVR only.

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofilepolicy&action=set&Channel=3&LiveProfile=3&NetworkPr
ofile=1&RecordProfile=2
```

2.7 Video Profile

2.7.1 Description

The **videoprofile** submenu configures and views the video profile settings.

Access level

Action	Camera	NVR	Encoder
view	Guest	User	Guest
add, update	Admin	User	Admin
remove	Admin	User	Admin

Note

The default profile cannot be deleted or renamed, and its encoding type cannot be altered.

For devices that support MPEG and H.264, Profile 1 and 2 are the default profiles; and Profile 1, 2 and 3 are the default profiles when MPEG, H.264, and MPEG4 are supported.

Attribute to check for maximum profiles: “attributes/Media/Limit/MaxProfile”

Attribute to check for maximum resolution: “attributes/Media/Limit/MaxResolution”

Attribute to check for ATC: “attributes/Media/Support/ATC”

Attribute to check for Crop: “attributes/Media/Support/Crop”

Attribute to check for supported VideoEncodings: “attributes/Media/Support/VideoEncodingType”

2.7.2 Syntax

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofile&action=<value>[&<parameter>=<value>]
```

2.7.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the video profile settings
	IsFixedProfile	RES	<bool> True, False	Gives information on whether profile is fixed profile or not.
	ProfileToken	RES	<string>	Profile Token
	Channel	REQ, RES	<csv>	Channel ID
	Channel.#.Profile	REQ	<csv>	Profile ID
	ShowAll	REQ	<bool> True, False	Shows all profiles including non-video profiles. (When this parameter is not delivered, audio only or meta only profile will not be shown.) CAMERA ONLY
	MaxGOVLength	RES	<int>	Maximum length of GOV (Group of Video) This parameter is valid only when **EncodingType** is set to H264 or MPEG4. The maximum length of GOV should be less than eight times of the framerate.

				CAMERA ONLY ENCODER ONLY
	MinGOVLength	RES	<int>	Minimum length of GOV (Group of Video) This parameter is valid only when **EncodingType** is set to H264 or MPEG4. CAMERA ONLY ENCODER ONLY
add, update	Channel	REQ, RES	<int>	Channel ID
	Profile	REQ, RES	<int>	Profile number **Note** **Profile** must be sent together with the **update** action. An error occurs If the **Profile** parameter is used for the **add** action.
	Name	REQ, RES	<string>	Profile name A profile name should be unique. **Note** **Name** and **EncodingType** must be sent together with the **add** action.
	ATCMode	REQ, RES	<enum> Disabled, AdjustFramerate, AdjustCompressionlevel	ATC (Auto Transmit Control) mode This adjusts the video properties according to the variance in the network bandwidth, controlling the bit rate. ATC mode is used to set the way to adjust the bit rate. • Disabled: Turns off ATC. • AdjustFramerate: Controls the frame rate if the network bandwidth drops off. • AdjustCompressionlevel: Controls the compression rate if the network bandwidth drops off. If **ATCTrigger** is set to Event, only AdjustFramerate for **ATCMode** is valid; if **ATCTrigger** is set to Network, AdjustFramerate and AdjustCompressionlevel for **ATCMode** are valid. CAMERA ONLY ENCODER ONLY

	ATCSensitivity	REQ, RES	<enum> `VeryLow`, `Low`, `Medium`, `High`, `VeryHigh`	ATC sensitivity This parameter is valid only when **`ATCMode`** is set to `AdjustFramerate` or `AdjustCompressionlevel`, and **`ATCTrigger`** is set to `Network`. CAMERA ONLY ENCODER ONLY
	ATCLimit	REQ, RES	<int>	ATC level limit This parameter is valid only when **`ATCMode`** is set to `AdjustFramerate` or `AdjustCompressionlevel`, and **`ATCTrigger`** is set to `Network`. CAMERA ONLY ENCODER ONLY
	ATCTrigger	REQ, RES	<enum> `Network`, `Event`	ATC (Auto Transmit Control) trigger This parameter is valid only when **`ATCMode`** is set to `AdjustFramerate` or `AdjustCompressionlevel`. If **`ATCTrigger`** is set to `Event`, only `AdjustFramerate` for **`ATCMode`** is valid; if **`ATCTrigger`** is set to `Network`, `AdjustFramerate` and `AdjustCompressionlevel` for **`ATCMode`** are valid. CAMERA ONLY ENCODER ONLY
	ATCEventType	REQ, RES	<csv> `MotionDetection`	ATC event type • `MotionDetection`: Sends only I-Frames normally, but sends videos with full-frames for motion detection events. **`ATCEventType`** is valid only when **`ATCTrigger`** is set to `Event`. CAMERA ONLY ENCODER ONLY
	SVNPMulticastEnable	REQ, RES	<bool> `True`, `False`	Enables or disables SVNP (Samsung Video Network Protocol) multicasting. If the **`SVNPMulticastEnable`** parameter is set to `True`, the **`SVNPMulticastAddress`** and **`SVNPMulticastPort`** parameter should be set together.

				CAMERA ONLY ENCODER ONLY
	SVNPMulticastAddress	REQ, RES	<string>	SVNP (Samsung Video Network Protocol) multicasting address The value must be in the format of an IPv4 address, and within the range of 224.0.0.1 to 239.255.255.254. **SVNPMulticastAddress** is valid only when **SVNPMulticastEnable** is set to True. CAMERA ONLY ENCODER ONLY
	SVNPMulticastPort	REQ, RES	<int>	SVNP multicasting port. **SVNPMulticastPort** is valid only when **SVNPMulticastEnable** is set to True. CAMERA ONLY ENCODER ONLY
	SVNPMulticastTTL	REQ, RES	<int>	SVNP (Samsung Video Network Protocol) TTL CAMERA ONLY ENCODER ONLY
	RTPMulticastEnable	REQ, RES	<bool> True, False	Enables or disables RTP (Real-time Transport Protocol) multicasting If the RTPMulticastEnable parameter is set to True, the **RTPMulticastAddress** and **RTPMulticastPort** parameter must be sent together. CAMERA ONLY ENCODER ONLY
	RTPMulticastAddress	REQ, RES	<string>	RTP multicasting address The value must be in the format of an IPv4 address, and within the range of 224.0.0.1 to 239.255.255.254. **RTPMulticastAddress** is valid only when **RTPMulticastEnable** is set to True. CAMERA ONLY ENCODER ONLY
	RTPMulticastPort	REQ, RES	<int>	RTP multicasting port.

				RTPMulticastPort is valid only when **RTPMulticastEnable** is set to True. CAMERA ONLY ENCODER ONLY
	RTPMulticastTTL	REQ, RES	<int>	RTP TTL CAMERA ONLY ENCODER ONLY
	EncodingType	REQ, RES	<enum> MJPEG, H264, MPEG4	Encoding type (read-only for NVR) **Note** **Name** and **EncodingType** must be sent together with the **add** action.
	Resolution	REQ, RES	<enum>	List of supported resolutions The value may vary depending on the model. Please check the device attributes using attributes.cgi.
	CropRatio	REQ, RES	<enum> Manual, 16:9, 4:3	Crop ratio setting If **CropEncodingEnable** is set to True, then **CropRation** must be set together with **CropEncodingEnable**. CAMERA ONLY ENCODER ONLY
	CropEncodingEnable	REQ, RES	<bool> True, False	Enables or disables the crop encoding This can transmit multiple cropped images from the whole area, as well as a full overview image simultaneously. If **CropEncodingEnable** is set to True, then **CropAreaCoordinate** must be set together with **CropEncodingEnable**. CAMERA ONLY ENCODER ONLY
	CropAreaCoordinate	REQ, RES	<string>	Crop area coordinates (vertices of the crop area) **CropAreaCoordinate** is valid only when **CropEncodingEnable** is set to True. Coordinates should be in the format of <x1, y1, x2, y2> with even numbers only.

			CAMERA ONLY ENCODER ONLY
FrameRate	REQ, RES	<int>	Video encoding frame rate
CompressionLevel	REQ, RES	<int>	Video encoding compression level The higher the level, the lower the quality.
Bitrate	REQ, RES	<int>	Video bit rate CAMERA ONLY ENCODER ONLY
IsDigitalPTZProfile	REQ, RES	<bool> `True`, `False`	Enables or disables Digital PTZ for a profile **Note** Not all profiles support Digital PTZ. Use the **`videocodecinfo`** submenu to learn whether a particular profile supports Digital PTZ or not.
MPEG4.BitrateControlType	REQ, RES	<enum> `CBR`, `VBR`, `Unknown`	MPEG4 video bit rate control type • `CBR`: Constant Bit Rate. Varies the video quality and fixes network transfer bit rate. • `VBR`: Variable Bit Rate. This varies the network transfer bit rate, to optimize quality. **Note** `Unknown` value is supported only for NVR.
MPEG4.GOVLength	REQ, RES	<int>	MPEG4 GOV length CAMERA ONLY ENCODER ONLY
MPEG4.PriorityType	REQ, RES	<enum> `FrameRate`, `CompressionLevel`	MPEG4 video encoding priority type CAMERA ONLY ENCODER ONLY
MJPEG.PriorityType	REQ, RES	<enum> `FrameRate`, `Bitrate`	MJPEG.video encoding priority type CAMERA ONLY ENCODER ONLY

	H264.BitrateControlType	REQ, RES	<enum> `CBR`, `VBR`, `Unknown`	H264 video bit rate control type (supports the camera only) • `CBR`: Constant Bit Rate • `VBR`: Variable Bit Rate **Note** `Unknown` value is supported only for NVR.
	H264.GOVLength	REQ, RES	<int>	H264 GOV length The GOV length is 8*FrameRate. However if FrameRate is 1, the GOV length is 1 as an exception. CAMERA ONLY ENCODER ONLY
	H264.PriorityType	REQ, RES	<enum> `FrameRate`, `CompressionLevel`	H264 video encoding priority type This parameter is valid only when **`ATCMode`** is NOT set to `Disabled`. CAMERA ONLY ENCODER ONLY
	H264.Profile	REQ, RES	<enum> `BaseLine`, `Main`, `High`	H264 profile CAMERA ONLY ENCODER ONLY
	H264.EntropyCoding	REQ, RES	<enum> `CAVLC`, `CABAC`	H264 video entropy encoding CAMERA ONLY ENCODER ONLY
	H264.DynamicGOVEnable	REQ, RES	<bool> `True`, `False`	Enables or disables H264 Dynamic GOV CAMERA ONLY ENCODER ONLY
	H264.DynamicGOVLength	REQ, RES	<int>	H264 Dynamic GOV length This parameter is valid only when **`H264.DynamicGOVEnable`** is NOT set to `False`. CAMERA ONLY ENCODER ONLY
	H264.SmartCodecEnable	REQ, RES	<bool> `True`, `False`	Enables or disables H264 smart codec **`H264.SmartCodecEnable`** is valid only when **`H264.BitrateControlType`** is set to `CBR`. CAMERA ONLY ENCODER ONLY

	H264.DynamicFPSEnable	REQ, RES	<bool> `True`, `False`	Enables or disables H264 Dynamic FPS CAMERA ONLY ENCODER ONLY
	H264.MinDynamicFPS	REQ, RES	<int>	Minimum value for h264 dynamic fps. CAMERA ONLY ENCODER ONLY
	H265.BitrateControlType	REQ, RES	<enum> `CBR`,`VBR`, `Unknown`	H.265 video bit rate control type (supports the camera only) • `CBR`: Constant Bit Rate • `VBR`: Variable Bit Rate **Note** Unknown value is supported only for NVR.
	H265.GOVLength	REQ, RES	<int>	H.265 GOV length The GOV length is 8*FrameRate. However if FrameRate is 1, the GOV length is 1 as an exception. CAMERA ONLY ENCODER ONLY
	H265.PriorityType	REQ, RES	<enum> `FrameRate`, `CompressionLevel`	H.265 video encoding priority type This parameter is valid only when **`ATCMode`** is NOT set to `Disabled`. CAMERA ONLY ENCODER ONLY
	H265.Profile	REQ, RES	<enum> `Main`, `Main10`, `MainStillPicture`	H.265 profile
	H265.EntropyCoding	REQ, RES	<enum> `CAVLC`, `CABAC`	H.265 video entropy encoding CAMERA ONLY ENCODER ONLY
	H265.SmartCodecEnable	REQ, RES	<bool> `True`, `False`	Enables or disables H.265 smart codec **`H265.SmartCodecEnable`** is valid only when **`H265.BitrateControlType`** is set to `CBR`. CAMERA ONLY ENCODER ONLY
	H265.DynamicGOVEnable	REQ, RES	<bool> `True`, `False`	Enables or disables H.265 Dynamic GOV CAMERA ONLY

				ENCODER ONLY
	H264.DynamicGOVLength	REQ, RES	<int>	H.265 Dynamic GOV length This parameter is valid only when H.265.DynamicGOV is NOT set to Disabled. CAMERA ONLY ENCODER ONLY
	H265.DynamicFPSEnable	REQ, RES	<bool> `True`, `False`	Enables or disables H.265 Dynamic FPS CAMERA ONLY ENCODER ONLY
	H265.MinDynamicFPS	REQ, RES	<int>	Minimum value for H.265 dynamic fps.
	AudioInputEnable	REQ, RES	<bool> `True`, `False`	Enables or disables the audio input.
	ViewModeIndex	REQ, RES	<int>	View mode of index number. If a user wants to set a profile as dewarped view, this should be set as 1. This should set with ViewModeType.
	ViewModeType	REQ, RES	<enum> `LeftHalfView`, `RightHalfView`, `Overview`, `360Panorama`, `Panorama`, `DoublePanorama`, `QuadView`, `SingleView`, `OneOverviewAndTripleView`, `OneOverviewAndOctaView`, `CropView`, `QuadView.#`	View mode type
	IsFixedFrameRateProfile	REQ, RES	<bool> `True`, `False`	Applicable only for H.264/H.265 profiles. Only one profile of the 10 profiles can be configured as FixedFrameRateProfile. CAMERA ONLY
remove	Channel	REQ	<int>	Channel ID
	Profile	REQ	<int>	Profile index **Note** `Profile` must be sent together with the `remove` action.

2.7.4 Examples

2.7.4.1 Getting video profile settings

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
 Channel.0.Profile.1.Name=MJPEG
Channel.0.Profile.1.EncodingType=MJPEG
Channel.0.Profile.1.ATCTrigger=Network
Channel.0.Profile.1.ATCEventType=MotionDetection
Channel.0.Profile.1.ATCMode=Disabled
Channel.0.Profile.1.ATCSensitivity=VeryHigh
Channel.0.Profile.1.ATCLimit=50
Channel.0.Profile.1.RTPMulticastEnable=False
Channel.0.Profile.1.RTPMulticastAddress=
Channel.0.Profile.1.RTPMulticastPort=0
Channel.0.Profile.1.RTPMulticastTTL=5
Channel.0.Profile.1.CropEncodingEnable=False
Channel.0.Profile.1.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.1.CropRatio=Manual
Channel.0.Profile.1.Resolution=1920x1080
Channel.0.Profile.1.FrameRate=2
Channel.0.Profile.1.CompressionLevel=10
Channel.0.Profile.1.Bitrate=6144
Channel.0.Profile.1.MJPEG.PriorityType=Bitrate
Channel.0.Profile.1.AudioInputEnable=True
Channel.0.Profile.1.ViewModeType=Overview
Channel.0.Profile.1.IsFixedProfile=True
Channel.0.Profile.1.ProfileToken=0bfe0cc8-6a06-4973-87dc-dc695a3224b0

Channel.0.Profile.2.Name=H.264
Channel.0.Profile.2.EncodingType=H264
Channel.0.Profile.2.ATCTrigger=Network
Channel.0.Profile.2.ATCEventType=MotionDetection
Channel.0.Profile.2.ATCMode=Disabled
Channel.0.Profile.2.ATCSensitivity=VeryHigh
Channel.0.Profile.2.ATCLimit=50
Channel.0.Profile.2.RTPMulticastEnable=False
Channel.0.Profile.2.RTPMulticastAddress=
Channel.0.Profile.2.RTPMulticastPort=0
Channel.0.Profile.2.RTPMulticastTTL=5
Channel.0.Profile.2.CropEncodingEnable=False
Channel.0.Profile.2.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.2.CropRatio=Manual
Channel.0.Profile.2.Resolution=1920x1080
Channel.0.Profile.2.FrameRate=30
Channel.0.Profile.2.CompressionLevel=10
Channel.0.Profile.2.Bitrate=30720
Channel.0.Profile.2.H264.BitrateControlType=VBR
Channel.0.Profile.2.H264.PriorityType=FrameRate
Channel.0.Profile.2.H264.GOVLength=1
```

```
Channel.0.Profile.2.H264.Profile=BaseLine
Channel.0.Profile.2.H264.EntropyCoding=CAVLC
Channel.0.Profile.2.H264.SmartCodecEnable=False
Channel.0.Profile.2.H264.MaxGOVLength=240
Channel.0.Profile.2.H264.MinGOVLength=1
Channel.0.Profile.2.H264.DynamicFPSEnable=False
Channel.0.Profile.2.H264.DynamicGOVEnable=False
Channel.0.Profile.2.H264.DynamicGOVLength=200
Channel.0.Profile.2.H264.MaxDynamicGOVLength=480
Channel.0.Profile.2.AudioInputEnable=False
Channel.0.Profile.2.ViewModeType=Overview
Channel.0.Profile.2.IsFixedProfile=True
Channel.0.Profile.2.ProfileToken=7c3efdcd-f995-4fd4-9c8c-766044665c23

Channel.0.Profile.3.Name=H.265
Channel.0.Profile.3.EncodingType=H265
Channel.0.Profile.3.ATCTrigger=Network
Channel.0.Profile.3.ATCEventType=MotionDetection
Channel.0.Profile.3.ATCMode=Disabled
Channel.0.Profile.3.ATCSensitivity=VeryHigh
Channel.0.Profile.3.ATCLimit=50
Channel.0.Profile.3.RTPMulticastEnable=False
Channel.0.Profile.3.RTPMulticastAddress=
Channel.0.Profile.3.RTPMulticastPort=0
Channel.0.Profile.3.RTPMulticastTTL=5
Channel.0.Profile.3.CropEncodingEnable=False
Channel.0.Profile.3.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.3.CropRatio=Manual
Channel.0.Profile.3.Resolution=1920x1080
Channel.0.Profile.3.FrameRate=25
Channel.0.Profile.3.CompressionLevel=10
Channel.0.Profile.3.Bitrate=2048
Channel.0.Profile.3.H265.BitrateControlType=VBR
Channel.0.Profile.3.H265.PriorityType=FrameRate
Channel.0.Profile.3.H265.GOVLength=50
Channel.0.Profile.3.H265.Profile=Main
Channel.0.Profile.3.H265.EntropyCoding=CABAC
Channel.0.Profile.3.H265.SmartCodecEnable=False
Channel.0.Profile.3.H265.MaxGOVLength=200
Channel.0.Profile.3.H265.MinGOVLength=1
Channel.0.Profile.3.H265.DynamicFPSEnable=False
Channel.0.Profile.3.H265.DynamicGOVEnable=False
Channel.0.Profile.3.H265.DynamicGOVLength=200
Channel.0.Profile.3.H265.MaxDynamicGOVLength=480
Channel.0.Profile.3.AudioInputEnable=False
Channel.0.Profile.3.ViewModeType=Overview
Channel.0.Profile.3.IsFixedProfile=True
Channel.0.Profile.3.ProfileToken=c848c619-4653-4483-ba3e-c1ca0030056e

Channel.0.Profile.4.Name=PLUGINFREE
```

```
Channel.0.Profile.4.EncodingType=H264
Channel.0.Profile.4.ATCTrigger=Network
Channel.0.Profile.4.ATCEventType=MotionDetection
Channel.0.Profile.4.ATCMode=Disabled
Channel.0.Profile.4.ATCSensitivity=VeryHigh
Channel.0.Profile.4.ATCLimit=50
Channel.0.Profile.4.RTPMulticastEnable=False
Channel.0.Profile.4.RTPMulticastAddress=
Channel.0.Profile.4.RTPMulticastPort=0
Channel.0.Profile.4.RTPMulticastTTL=5
Channel.0.Profile.4.CropEncodingEnable=False
Channel.0.Profile.4.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.4.CropRatio=Manual
Channel.0.Profile.4.Resolution=1280x720
Channel.0.Profile.4.FrameRate=20
Channel.0.Profile.4.CompressionLevel=10
Channel.0.Profile.4.Bitrate=2048
Channel.0.Profile.4.H264.BitrateControlType=VBR
Channel.0.Profile.4.H264.PriorityType=FrameRate
Channel.0.Profile.4.H264.GOVLength=20
Channel.0.Profile.4.H264.Profile=Main
Channel.0.Profile.4.H264.EntropyCoding=CABAC
Channel.0.Profile.4.H264.SmartCodecEnable=False
Channel.0.Profile.4.H264.MaxGOVLength=160
Channel.0.Profile.4.H264.MinGOVLength=1
Channel.0.Profile.4.H264.DynamicFPSEnable=False
Channel.0.Profile.4.H264.DynamicGOVEnable=False
Channel.0.Profile.4.H264.DynamicGOVLength=200
Channel.0.Profile.4.H264.MaxDynamicGOVLength=480
Channel.0.Profile.4.AudioInputEnable=False
Channel.0.Profile.4.ViewModeType=Overview
Channel.0.Profile.4.IsFixedProfile=False
Channel.0.Profile.4.ProfileToken=77db8fa8-a4fd-4061-b365-30af89242f5a

Channel.0.Profile.10.Name=MOBILE
Channel.0.Profile.10.EncodingType=H264
Channel.0.Profile.10.ATCTrigger=Network
Channel.0.Profile.10.ATCEventType=MotionDetection
Channel.0.Profile.10.ATCMode=Disabled
Channel.0.Profile.10.ATCSensitivity=VeryHigh
Channel.0.Profile.10.ATCLimit=50
Channel.0.Profile.10.RTPMulticastEnable=False
Channel.0.Profile.10.RTPMulticastAddress=
Channel.0.Profile.10.RTPMulticastPort=0
Channel.0.Profile.10.RTPMulticastTTL=5
Channel.0.Profile.10.CropEncodingEnable=False
Channel.0.Profile.10.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.10.CropRatio=Manual
Channel.0.Profile.10.Resolution=1920x1080
Channel.0.Profile.10.FrameRate=30
```

```
Channel.0.Profile.10.CompressionLevel=10
Channel.0.Profile.10.Bitrate=30720
Channel.0.Profile.10.H264.BitrateControlType=VBR
Channel.0.Profile.10.H264.PriorityType=FrameRate
Channel.0.Profile.10.H264.GOVLength=1
Channel.0.Profile.10.H264.Profile=BaseLine
Channel.0.Profile.10.H264.EntropyCoding=CAVLC
Channel.0.Profile.10.H264.SmartCodecEnable=False
Channel.0.Profile.10.H264.MaxGOVLength=240
Channel.0.Profile.10.H264.MinGOVLength=1
Channel.0.Profile.10.H264.DynamicFPSEnable=False
Channel.0.Profile.10.H264.DynamicGOVEnable=False
Channel.0.Profile.10.H264.DynamicGOVLength=200
Channel.0.Profile.10.H264.MaxDynamicGOVLength=480
Channel.0.Profile.10.AudioInputEnable=False
Channel.0.Profile.10.ViewModeType=Overview
Channel.0.Profile.10.IsFixedProfile=False
Channel.0.Profile.10.ProfileToken=c2ecc6cd-457a-429b-8e59-793cef09e759
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```


```
{
   "VideoProfiles": [
      {
         "Channel": 0,
         "Profiles": [
            {
               "Profile": 1,
               "Name": "MJPEG",
               "EncodingType": "MJPEG",
               "ATCTrigger": "Network",
               "ATCEventType": "MotionDetection",
               "ATCMode": "Disabled",
               "ATCSensitivity": "VeryHigh",
               "ATCLimit": 50,
               "RTPMulticastEnable": false,
               "RTPMulticastAddress": "",
               "RTPMulticastPort": 0,
               "RTPMulticastTTL": 5,
               "CropEncodingEnable": false,
               "CropAreaCoordinate": "320,28,1600,1052",
               "CropRatio": "Manual",
               "Resolution": "1920x1080",
               "FrameRate": 2,
               "CompressionLevel": 10,
               "Bitrate": 6144,
               "PriorityType": "Bitrate",
               "AudioInputEnable": true,
               "ViewModeType": "Overview",
```

```
                "IsFixedProfile": true,
                "ProfileToken": "0bfe0cc8-6a06-4973-87dc-dc695a3224b0"
            },
            {
                "Profile": 2,
                "Name": "H.264",
                "EncodingType": "H264",
                "ATCTrigger": "Network",
                "ATCEventType": "MotionDetection",
                "ATCMode": "Disabled",
                "ATCSensitivity": "VeryHigh",
                "ATCLimit": 50,
                "RTPMulticastEnable": false,
                "RTPMulticastAddress": "",
                "RTPMulticastPort": 0,
                "RTPMulticastTTL": 5,
                "CropEncodingEnable": false,
                "CropAreaCoordinate": "320,28,1600,1052",
                "CropRatio": "Manual",
                "Resolution": "1920x1080",
                "FrameRate": 30,
                "CompressionLevel": 10,
                "Bitrate": 30720,
                "H264": {
                    "BitrateControlType": "VBR",
                    "PriorityType": "FrameRate",
                    "GOVLength": 1,
                    "Profile": "BaseLine",
                    "EntropyCoding": "CAVLC",
                    "SmartCodecEnable": false,
                    "MaxGOVLength": 240,
                    "MinGOVLength": 1,
                    "DynamicFPSEnable": false,
                    "DynamicGOVEnable": false,
                    "DynamicGOVLength": 200,
                    "MaxDynamicGOVLength": 480
                },
                "AudioInputEnable": false,
                "ViewModeType": "Overview",
                "IsFixedProfile": true,
                "ProfileToken": "7c3efdcd-f995-4fd4-9c8c-766044665c23"
            },
            {
                "Profile": 3,
                "Name": "H.265",
                "EncodingType": "H265",
                "ATCTrigger": "Network",
                "ATCEventType": "MotionDetection",
                "ATCMode": "Disabled",
                "ATCSensitivity": "VeryHigh",
```

```
                    "ATCLimit": 50,
                    "RTPMulticastEnable": false,
                    "RTPMulticastAddress": "",
                    "RTPMulticastPort": 0,
                    "RTPMulticastTTL": 5,
                    "CropEncodingEnable": false,
                    "CropAreaCoordinate": "320,28,1600,1052",
                    "CropRatio": "Manual",
                    "Resolution": "1920x1080",
                    "FrameRate": 25,
                    "CompressionLevel": 10,
                    "Bitrate": 2048,
                    "H265": {
                        "BitrateControlType": "VBR",
                        "PriorityType": "FrameRate",
                        "GOVLength": 50,
                        "Profile": "Main",
                        "EntropyCoding": "CABAC",
                        "SmartCodecEnable": false,
                        "MaxGOVLength": 200,
                        "MinGOVLength": 1,
                        "DynamicFPSEnable": false,
                        "DynamicGOVEnable": false,
                        "DynamicGOVLength": 200,
                        "MaxDynamicGOVLength": 480
                    },
                    "AudioInputEnable": false,
                    "ViewModeType": "Overview",
                    "IsFixedProfile": true,
                    "ProfileToken": "c848c619-4653-4483-ba3e-c1ca0030056e"
                },
                {
                    "Profile": 4,
                    "Name": "PLUGINFREE",
                    "EncodingType": "H264",
                    "ATCTrigger": "Network",
                    "ATCEventType": "MotionDetection",
                    "ATCMode": "Disabled",
                    "ATCSensitivity": "VeryHigh",
                    "ATCLimit": 50,
                    "RTPMulticastEnable": false,
                    "RTPMulticastAddress": "",
                    "RTPMulticastPort": 0,
                    "RTPMulticastTTL": 5,
                    "CropEncodingEnable": false,
                    "CropAreaCoordinate": "320,28,1600,1052",
                    "CropRatio": "Manual",
                    "Resolution": "1280x720",
                    "FrameRate": 20,
                    "CompressionLevel": 10,
```

```
                "Bitrate": 2048,
                "H264": {
                    "BitrateControlType": "VBR",
                    "PriorityType": "FrameRate",
                    "GOVLength": 20,
                    "Profile": "Main",
                    "EntropyCoding": "CABAC",
                    "SmartCodecEnable": false,
                    "MaxGOVLength": 160,
                    "MinGOVLength": 1,
                    "DynamicFPSEnable": false,
                    "DynamicGOVEnable": false,
                    "DynamicGOVLength": 200,
                    "MaxDynamicGOVLength": 480
                },
                "AudioInputEnable": false,
                "ViewModeType": "Overview",
                "IsFixedProfile": false,
                "ProfileToken": "77db8fa8-a4fd-4061-b365-30af89242f5a"
            },
            {
                "Profile": 10,
                "Name": "MOBILE",
                "EncodingType": "H264",
                "ATCTrigger": "Network",
                "ATCEventType": "MotionDetection",
                "ATCMode": "Disabled",
                "ATCSensitivity": "VeryHigh",
                "ATCLimit": 50,
                "RTPMulticastEnable": false,
                "RTPMulticastAddress": "",
                "RTPMulticastPort": 0,
                "RTPMulticastTTL": 5,
                "CropEncodingEnable": false,
                "CropAreaCoordinate": "320,28,1600,1052",
                "CropRatio": "Manual",
                "Resolution": "1920x1080",
                "FrameRate": 30,
                "CompressionLevel": 10,
                "Bitrate": 30720,
                "H264": {
                    "BitrateControlType": "VBR",
                    "PriorityType": "FrameRate",
                    "GOVLength": 1,
                    "Profile": "BaseLine",
                    "EntropyCoding": "CAVLC",
                    "SmartCodecEnable": false,
                    "MaxGOVLength": 240,
                    "MinGOVLength": 1,
                    "DynamicFPSEnable": false,
```

```
                    "DynamicGOVEnable": false,
                    "DynamicGOVLength": 200,
                    "MaxDynamicGOVLength": 480
                },
                "AudioInputEnable": false,
                "ViewModeType": "Overview",
                "IsFixedProfile": false,
                "ProfileToken": "c2ecc6cd-457a-429b-8e59-793cef09e759"
            }
        ]
    }
]
}
```


2.7.4.2 Getting Profile 1 information

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=view&Profile=1
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```


```
Channel.0.Profile.1.Name=MJPEG
Channel.0.Profile.1.EncodingType=MJPEG
Channel.0.Profile.1.ATCTrigger=Network
Channel.0.Profile.1.ATCEventType=MotionDetection
Channel.0.Profile.1.ATCMode=Disabled
Channel.0.Profile.1.ATCSensitivity=VeryHigh
Channel.0.Profile.1.ATCLimit=50
Channel.0.Profile.1.RTPMulticastEnable=False
Channel.0.Profile.1.RTPMulticastAddress=
Channel.0.Profile.1.RTPMulticastPort=0
Channel.0.Profile.1.RTPMulticastTTL=5
Channel.0.Profile.1.CropEncodingEnable=False
Channel.0.Profile.1.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.1.CropRatio=Manual
Channel.0.Profile.1.Resolution=1920x1080
Channel.0.Profile.1.FrameRate=2
Channel.0.Profile.1.CompressionLevel=10
Channel.0.Profile.1.Bitrate=6144
Channel.0.Profile.1.MJPEG.PriorityType=Bitrate
Channel.0.Profile.1.AudioInputEnable=True
Channel.0.Profile.1.ViewModeType=Overview
Channel.0.Profile.1.IsFixedProfile=True
Channel.0.Profile.1.ProfileToken=0bfe0cc8-6a06-4973-87dc-dc695a3224b0
```


JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```


```
 {
```

```
   "VideoProfiles": [
      {
         "Channel": 0,
         "Profiles": [
            {
               "Profile": 1,
               "Name": "MJPEG",
               "EncodingType": "MJPEG",
               "ATCTrigger": "Network",
               "ATCEventType": "MotionDetection",
               "ATCMode": "Disabled",
               "ATCSensitivity": "VeryHigh",
               "ATCLimit": 50,
               "RTPMulticastEnable": false,
               "RTPMulticastAddress": "",
               "RTPMulticastPort": 0,
               "RTPMulticastTTL": 5,
               "CropEncodingEnable": false,
               "CropAreaCoordinate": "320,28,1600,1052",
               "CropRatio": "Manual",
               "Resolution": "1920x1080",
               "FrameRate": 2,
               "CompressionLevel": 10,
               "Bitrate": 6144,
               "PriorityType": "Bitrate",
               "AudioInputEnable": true,
               "ViewModeType": "Overview",
               "IsFixedProfile": true,
               "ProfileToken": "0bfe0cc8-6a06-4973-87dc-dc695a3224b0"
            }
         ]
      }
   ]
}
```


2.7.4.3 Getting all profiles including audio only and meta only profiles

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=view&ShowAll=True
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```


```
 Channel.0.Profile.1.Name=MJPEG
Channel.0.Profile.1.EncodingType=MJPEG
Channel.0.Profile.1.ATCTrigger=Network
Channel.0.Profile.1.ATCEventType=MotionDetection
Channel.0.Profile.1.ATCMode=Disabled
Channel.0.Profile.1.ATCSensitivity=VeryHigh
Channel.0.Profile.1.ATCLimit=50
```

```
Channel.0.Profile.1.RTPMulticastEnable=False
Channel.0.Profile.1.RTPMulticastAddress=
Channel.0.Profile.1.RTPMulticastPort=0
Channel.0.Profile.1.RTPMulticastTTL=5
Channel.0.Profile.1.CropEncodingEnable=False
Channel.0.Profile.1.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.1.CropRatio=Manual
Channel.0.Profile.1.Resolution=1920x1080
Channel.0.Profile.1.FrameRate=2
Channel.0.Profile.1.CompressionLevel=10
Channel.0.Profile.1.Bitrate=6144
Channel.0.Profile.1.MJPEG.PriorityType=Bitrate
Channel.0.Profile.1.AudioInputEnable=True
Channel.0.Profile.1.ViewModeType=Overview
Channel.0.Profile.1.IsFixedProfile=True
Channel.0.Profile.1.ProfileToken=0bfe0cc8-6a06-4973-87dc-dc695a3224b0

Channel.0.Profile.2.Name=H.264
Channel.0.Profile.2.EncodingType=H264
Channel.0.Profile.2.ATCTrigger=Network
Channel.0.Profile.2.ATCEventType=MotionDetection
Channel.0.Profile.2.ATCMode=Disabled
Channel.0.Profile.2.ATCSensitivity=VeryHigh
Channel.0.Profile.2.ATCLimit=50
Channel.0.Profile.2.RTPMulticastEnable=False
Channel.0.Profile.2.RTPMulticastAddress=
Channel.0.Profile.2.RTPMulticastPort=0
Channel.0.Profile.2.RTPMulticastTTL=5
Channel.0.Profile.2.CropEncodingEnable=False
Channel.0.Profile.2.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.2.CropRatio=Manual
Channel.0.Profile.2.Resolution=1920x1080
Channel.0.Profile.2.FrameRate=30
Channel.0.Profile.2.CompressionLevel=10
Channel.0.Profile.2.Bitrate=30720
Channel.0.Profile.2.H264.BitrateControlType=VBR
Channel.0.Profile.2.H264.PriorityType=FrameRate
Channel.0.Profile.2.H264.GOVLength=1
Channel.0.Profile.2.H264.Profile=BaseLine
Channel.0.Profile.2.H264.EntropyCoding=CAVLC
Channel.0.Profile.2.H264.SmartCodecEnable=False
Channel.0.Profile.2.H264.MaxGOVLength=240
Channel.0.Profile.2.H264.MinGOVLength=1
Channel.0.Profile.2.H264.DynamicFPSEnable=False
Channel.0.Profile.2.H264.DynamicGOVEnable=False
Channel.0.Profile.2.H264.DynamicGOVLength=200
Channel.0.Profile.2.H264.MaxDynamicGOVLength=480
Channel.0.Profile.2.AudioInputEnable=False
Channel.0.Profile.2.ViewModeType=Overview
Channel.0.Profile.2.IsFixedProfile=True
```

```
Channel.0.Profile.2.ProfileToken=7c3efdcd-f995-4fd4-9c8c-766044665c23

Channel.0.Profile.3.Name=H.265
Channel.0.Profile.3.EncodingType=H265
Channel.0.Profile.3.ATCTrigger=Network
Channel.0.Profile.3.ATCEventType=MotionDetection
Channel.0.Profile.3.ATCMode=Disabled
Channel.0.Profile.3.ATCSensitivity=VeryHigh
Channel.0.Profile.3.ATCLimit=50
Channel.0.Profile.3.RTPMulticastEnable=False
Channel.0.Profile.3.RTPMulticastAddress=
Channel.0.Profile.3.RTPMulticastPort=0
Channel.0.Profile.3.RTPMulticastTTL=5
Channel.0.Profile.3.CropEncodingEnable=False
Channel.0.Profile.3.CropAreaCoordinate=320,28,1600,1052
Channel.0.Profile.3.CropRatio=Manual
Channel.0.Profile.3.Resolution=1920x1080
Channel.0.Profile.3.FrameRate=25
Channel.0.Profile.3.CompressionLevel=10
Channel.0.Profile.3.Bitrate=2048
Channel.0.Profile.3.H265.BitrateControlType=VBR
Channel.0.Profile.3.H265.PriorityType=FrameRate
Channel.0.Profile.3.H265.GOVLength=50
Channel.0.Profile.3.H265.Profile=Main
Channel.0.Profile.3.H265.EntropyCoding=CABAC
Channel.0.Profile.3.H265.SmartCodecEnable=False
Channel.0.Profile.3.H265.MaxGOVLength=200
Channel.0.Profile.3.H265.MinGOVLength=1
Channel.0.Profile.3.H265.DynamicFPSEnable=False
Channel.0.Profile.3.H265.DynamicGOVEnable=False
Channel.0.Profile.3.H265.DynamicGOVLength=200
Channel.0.Profile.3.H265.MaxDynamicGOVLength=480
Channel.0.Profile.3.AudioInputEnable=False
Channel.0.Profile.3.ViewModeType=Overview
Channel.0.Profile.3.IsFixedProfile=True
Channel.0.Profile.3.ProfileToken=c848c619-4653-4483-ba3e-c1ca0030056e
Channel.0.Profile.4.Name=testtt22
Channel.0.Profile.4.AudioInputEnable=False
Channel.0.Profile.4.IsFixedProfile=False
Channel.0.Profile.4.ProfileToken=51df39de-d73f-4247-bb2f-fd3e466d413a
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
   "VideoProfiles": [
      {
         "Channel": 0,
         "Profiles": [
            {
```

```
                    "Profile": 1,
                    "Name": "MJPEG",
                    "EncodingType": "MJPEG",
                    "ATCTrigger": "Network",
                    "ATCEventType": "MotionDetection",
                    "ATCMode": "Disabled",
                    "ATCSensitivity": "VeryHigh",
                    "ATCLimit": 50,
                    "RTPMulticastEnable": false,
                    "RTPMulticastAddress": "",
                    "RTPMulticastPort": 0,
                    "RTPMulticastTTL": 5,
                    "CropEncodingEnable": false,
                    "CropAreaCoordinate": "320,28,1600,1052",
                    "CropRatio": "Manual",
                    "Resolution": "1920x1080",
                    "FrameRate": 2,
                    "CompressionLevel": 10,
                    "Bitrate": 6144,
                    "PriorityType": "Bitrate",
                    "AudioInputEnable": true,
                    "ViewModeType": "Overview",
                    "IsFixedProfile": true,
                    "ProfileToken": "0bfe0cc8-6a06-4973-87dc-dc695a3224b0"
                },
                {
                    "Profile": 2,
                    "Name": "H.264",
                    "EncodingType": "H264",
                    "ATCTrigger": "Network",
                    "ATCEventType": "MotionDetection",
                    "ATCMode": "Disabled",
                    "ATCSensitivity": "VeryHigh",
                    "ATCLimit": 50,
                    "RTPMulticastEnable": false,
                    "RTPMulticastAddress": "",
                    "RTPMulticastPort": 0,
                    "RTPMulticastTTL": 5,
                    "CropEncodingEnable": false,
                    "CropAreaCoordinate": "320,28,1600,1052",
                    "CropRatio": "Manual",
                    "Resolution": "1920x1080",
                    "FrameRate": 30,
                    "CompressionLevel": 10,
                    "Bitrate": 30720,
                    "H264": {
                        "BitrateControlType": "VBR",
                        "PriorityType": "FrameRate",
                        "GOVLength": 1,
                        "Profile": "BaseLine",
```

```
                    "EntropyCoding": "CAVLC",
                    "SmartCodecEnable": false,
                    "MaxGOVLength": 240,
                    "MinGOVLength": 1,
                    "DynamicFPSEnable": false,
                    "DynamicGOVEnable": false,
                    "DynamicGOVLength": 200,
                    "MaxDynamicGOVLength": 480
                },
                "AudioInputEnable": false,
                "ViewModeType": "Overview",
                "IsFixedProfile": true,
                "ProfileToken": "7c3efdcd-f995-4fd4-9c8c-766044665c23"
            },
            {
                "Profile": 3,
                "Name": "H.265",
                "EncodingType": "H265",
                "ATCTrigger": "Network",
                "ATCEventType": "MotionDetection",
                "ATCMode": "Disabled",
                "ATCSensitivity": "VeryHigh",
                "ATCLimit": 50,
                "RTPMulticastEnable": false,
                "RTPMulticastAddress": "",
                "RTPMulticastPort": 0,
                "RTPMulticastTTL": 5,
                "CropEncodingEnable": false,
                "CropAreaCoordinate": "320,28,1600,1052",
                "CropRatio": "Manual",
                "Resolution": "1920x1080",
                "FrameRate": 25,
                "CompressionLevel": 10,
                "Bitrate": 2048,
                "H265": {
                    "BitrateControlType": "VBR",
                    "PriorityType": "FrameRate",
                    "GOVLength": 50,
                    "Profile": "Main",
                    "EntropyCoding": "CABAC",
                    "SmartCodecEnable": false,
                    "MaxGOVLength": 200,
                    "MinGOVLength": 1,
                    "DynamicFPSEnable": false,
                    "DynamicGOVEnable": false,
                    "DynamicGOVLength": 200,
                    "MaxDynamicGOVLength": 480
                },
                "AudioInputEnable": false,
                "ViewModeType": "Overview",
```

```
                "IsFixedProfile": true,
                "ProfileToken": "c848c619-4653-4483-ba3e-c1ca0030056e"
            }, {
                "Profile": 4,
                "Name": "testtt22",
                "AudioInputEnable": false,
                "IsFixedProfile": false,
                "ProfileToken": "51df39de-d73f-4247-bb2f-fd3e466d413a"
            }
           ]
       }
   ]
}
```

2.7.4.4 Removing Profile 4 on Channel 0

To use the **remove** action, the **Profile** parameter should be set.

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofile&action=remove&Channel=0&Profile=4
```

2.7.4.5 Adding a profile

Setting the name to Test and encoding type to MJPEG

To add a profile with the **add** action, the **Name** and **EncodingType** parameters must be set together.

The **add** action returns the profile index which should be sent for the **update** action.

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofile&action=add&Name=Test&EncodingType=MJPEG
```

The following request example is for NVR only.

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofile&action=add&Channel=0&Name=Temp3&EncodingType=MJPEG
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Profile=4
OK
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "Response": "Success",
   Profile=4
```

```
}
```

2.7.4.6 Updating Profile 4

Setting the resolution to 1920x1080 and encoding type to H.264

To modify the profile with the `update` action, the `Profile` parameter must be set.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=update&Profile=4&Resolution=1920x1080&EncodingType=H264
```

The following request example is for NVR only.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=update&Profile=4&Resolution=1920x1080&EncodingType=H264&Channel=0
```

Setting ATC to send I-frames in normal scenario and full frames only for motion detection events

REQUEST

The following request example is for network cameras only.

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=update&Profile=4&ATCTrigger=Event&ATCEventType=MotionDetection&ATCMode=AdjustFramerate
```

Switching ATC to network mode (adjusting video bandwidth according to network traffic)

REQUEST

The following request example is for network cameras only.

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=update&Profile=4&ATCTrigger=Network&ATCMode=AdjustFramerate
```

2.8 Audio Input

2.8.1 Description

The **audioinput** submenu configures and views the audio input settings.

Access level

Action	Camera	NVR	Encoder	Decoder
view	Suser	User	Suser	User
set	Admin	User	Admin	User

> **Note**
> Attribute to check for Audio Input: “attributes/Media/Support/AudioIn”
> Permission to check for User Access: “security/users/AudioInAccess”
> Attribute to check for maximum Audio Inputs: “attributes/Media/Limit/MaxAudioInput”

2.8.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=audioinput&action=<value>[&<parameter>=<value>]
```

2.8.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the audio input settings
	Channel	REQ	<csv>	Channel ID
	SampleRate	RES	<int> `8000`	Audio input sample rate (read only)
set	Channel	REQ, RES	<int>	Channel ID
	Enable	REQ, RES	<bool> `True`, `False`	Enables or disables the audio input.
	Mode	REQ, RES	<enum> `Mono`, `Stereo`	Audio input mode (read-only for NVR)
	Source	REQ, RES	<enum> `MIC`, `ExternalMIC`, `LineIn`	Audio input source • `MIC`: Built-in microphone in the camera • `ExternalMIC`: External microphone • `LineIn`: Audio device connected through a cable The value may vary depending on the model. Please check the device attributes using attributes.cgi. CAMERA ONLY
	PowerOnExternalMIC	REQ, RES	<bool> `True`, `False`	Enables or disables the function in which the camera supplies power to the connected external microphone when the external microphone has no separate power supply.

				This parameter is valid only when **Source** is set to ExternalMIC. CAMERA ONLY
	EncodingType	REQ, RES	<enum> G711, G726, AAC	Audio input codec (read-only for NVR) The value may vary depending on the model. **Note** Attribute to check for supported AudioEncodings: "attributes/Media /Support/AudioEncodingType"
	Bitrate	REQ, RES	<enum> 16000, 24000, 32000, 40000, 64000	Audio input bit rate (read-only for NVR) The value may vary depending on the model. Please check the device attributes using attributes.cgi. The values 16000, 24000, 32000, or 40000 are available if **EncodingType** is set to G726; the value 64000 is available if **EncodingType** is set to G711.
	Gain	REQ, RES	<int>	Audio input gain (read-only for NVR) If **Enable** is set to True, the value is in the range of 1 to 10. If **Enable** is set to False, the value is 0.
	NoiseReduction	REQ, RES	<bool> True, False	For enabling noise reduction feature
	NoiseReductionSensitivity	REQ, RES	<int>	Noise reduction sensitivity value

2.8.4 Examples

2.8.4.1 Getting audio input settings

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=audioinput&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.SampleRate=8000
Channel.0.Mode=Mono
Channel.0.Source=LineIn
Channel.0.PowerOnExternalMIC=True
Channel.0.EncodingType=G711
Channel.0.Bitrate=64000
Channel.0.Gain=5
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "AudioInputs": [
        {
            "Channel": 0,
            "SampleRate": 8000,
            "Mode": "Mono",
            "Source": "LineIn",
            "PowerOnExternalMIC": true,
            "EncodingType": "G711",
            "Bitrate": "64000",
            "Gain": 5
        }
    ]
}
```

The following response example is for NVR only.

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Enable=True
Channel.0.SampleRate=0
Channel.0.Mode=Mono
Channel.0.EncodingType=
Channel.0.Bitrate=0
Channel.0.Gain=1
Channel.1.Enable=True
Channel.1.SampleRate=0
Channel.1.Mode=Mono
Channel.1.EncodingType=
Channel.1.Bitrate=0
Channel.1.Gain=1
Channel.2.Enable=True
Channel.2.SampleRate=8
Channel.2.Mode=Mono
Channel.2.EncodingType=G711
Channel.2.Bitrate=64000
Channel.2.Gain=1
...
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
"AudioInputs":[{
            "Channel":      0,
```

```
            "Enable":       true,
            "SampleRate":   0,
            "Mode": "Mono",
            "EncodingType": "",
            "Bitrate":      "0",
            "Gain": 1
    }, {
            "Channel":      1,
            "Enable":       true,
            "SampleRate":   0,
            "Mode": "Mono",
            "EncodingType": "",
            "Bitrate":      "0",
            "Gain": 1
    }, {
            "Channel":      2,
            "Enable":       true,
            "SampleRate":   8,
            "Mode": "Mono",
            "EncodingType": "G711",
            "Bitrate":      "64000",
            "Gain": 1
    }
...
   ]
}
```

2.8.4.2 Setting the audio gain to 1

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=audioinput&action=set&Gain=1
```

2.9 Audio Output

2.9.1 Description

The **audiooutput** submenu configures and views the audio output settings.

Access level

Action	Camera	NVR	Encoder
view	Suser	User	Suser
set	Admin	(Not supported)	Admin

> **Note**
> Attribute to check for Audio Output: “attributes/Media/Support/DeviceAudioOut”
> Permission to check for User Access: “security/users/AudioOutAccess”
> Attribute to check for maximum Audio Inputs: “attributes/Media/Limit/MaxAudioOutput”

2.9.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=audiooutput&action=<value>[&<parameter>=<value>]
```

2.9.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the audio output settings
	Channel	REQ	<csv>	Channel ID
	SampleRate	RES	<int> 8000	Audio output sample rate
	UnitSize	RES	<int>	Unit size of audio output
set	Channel	REQ, RES	<int>	Channel ID (read-only for NVR)
	DecodingType	REQ, RES	<enum> G711, G726	Audio output decoding type (read-only for NVR) The value may vary depending on the model. Please check the device attributes using attributes.cgi.
	Mode	REQ, RES	<enum> Mono, Stereo	Audio output mode (read-only for NVR) The value may vary depending on the model.
	Bitrate	REQ, RES	<enum> 16000, 24000, 32000, 40000, 64000	Audio output bit rate (read-only for NVR) The values 16000, 24000, 32000, and 40000 are available if **DecodingType** is set to G726; the value 64000 is available if **DecodingType** is set to G711. The value may vary depending on the model. Please check the device attributes using attributes.cgi.

	Enable	REQ, RES	<bool> `True`, `False`	Enables or disables the audio output. (read-only for NVR)
	Gain	REQ, RES	<int>	Audio output gain (read-only for NVR) If **`Enable`** is set to `True`, the value is in the range of 1 to 10. If **`Enable`** is set to `False`, the value is `0`.

2.9.4 Examples

2.9.4.1 Getting the audio output settings

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=audiooutput&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
 Channel.0.SampleRate=8000
Channel.0.DecodingType=G711
Channel.0.Mode=Mono
Channel.0.Bitrate=64000
Channel.0.Enable=True
Channel.0.Gain=5
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "AudioOutputs": [
        {
            "Channel": 0,
            "SampleRate": 8000,
            "DecodingType": "G711",
            "Mode": "Mono",
            "Bitrate": "64000",
            "Enable": true,
            "Gain": 5
        }
    ]
}
```

The following response example is for NVR only.

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
 Channel.0.Enable=False
Channel.1.Enable=True
```

```
Channel.1.UnitSize=8000
Channel.1.SampleRate=8000
Channel.1.Mode=Mono
Channel.1.DecodingType=G711
Channel.1.Bitrate=0
Channel.1.Gain=1
Channel.2.Enable=True
Channel.2.UnitSize=8000
Channel.2.SampleRate=8000
Channel.2.Mode=Mono
Channel.2.DecodingType=G711
Channel.2.Bitrate=0
Channel.2.Gain=1
...
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
"AudioOutputs":[{
            "Channel":      0,
            "Enable":       false
    }, {
            "Channel":      1,
            "Enable":       true,
            "UnitSize":     8000,
            "SampleRate":   8000,
            "Mode": "Mono",
            "DecodingType": "G711",
            "Bitrate":      "0",
            "Gain": 1
    }, {
            "Channel":      2,
            "Enable":       true,
            "UnitSize":     8000,
            "SampleRate":   8000,
            "Mode": "Mono",
            "DecodingType": "G711",
            "Bitrate":      "0",
            "Gain": 1
    }
  ]
}
```

2.9.4.2 Setting the audio output to mono

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=audiooutput&action=set&Enable=True&Mode=Mono
```

2.10 Stream URI

2.10.1 Description

The `streamuri` submenu requests the streaming URI (Uniform Resource Identifier) for a given profile based on the configuration parameters.

Access level

Action	Camera	NVR	Encoder
view	Guest	User	Guest

> **Note**
> Attribute to check for UDP streaming: “attributes/Media/Support/Stream.UDP”
> Attribute to check for TCP streaming: “attributes/Media/Support/Stream.TCP”
> Attribute to check for Multicast streaming: “attributes/Media/Support/Stream.Multicast”
> Attribute to check for RTP streaming over RTSP Over TCP: “attributes/Media /Support/Stream.RTPOverRTSPOverHTTP”
> Attribute to check for RTSP streaming over HTTP: “attributes/Media/Support/Stream.RTSPOverHTTP”
> Attribute to check for RTSP streaming over HTTPS: “attributes/Media/Support/Stream.RTSPOverHTTPS”

2.10.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=streamuri&action=view[&<parameter>=<value>]
```

2.10.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	Channel	REQ	<int>	Channel ID
	DeviceID	REQ	<int>	Device ID NVR ONLY
	Profile	REQ	<int>	Stream URI profile **Note** `Profile`, `MediaType`, `Mode`, `StreamType`, `TransportProtocol`, and `RTSPOverHTTP` must be sent together with the `view` action.
	MediaType	REQ	<enum> `Live`, `Search`, `Backup`	Streaming media type
	Mode	REQ	<enum> `IframeOnly`, `Full`	Streaming mode
	ClientType	REQ	<enum> `PC`, `Mobile`	Client type **Note** `Profile`, `MediaType`, `Mode`, `StreamType`, `TransportProtocol`, `RTSPOverHTTP` and `ClientType` must be sent together with the `view` action for NVR. NVR ONLY

	StreamType	REQ	<enum> `RTPUnicast`, `RTPMulticast`	Streaming type
	TransportProtocol	REQ	<enum> `TCP`, `UDP`	Streaming transfer protocol
	RTSPOverHTTP	REQ	<bool> `True`, `False`	Enables or disables the RTSP (Real Time Streaming Protocol) over HTTP (Hyper Transfer Protocol)
	OverlappedID	REQ	<int>	Overlapped recording ID For more information about overlapped recording, please refer to 'Chapter 5 Overlapped Recording' of the 'Recording' document. **`OverlappedID`** is valid only when **`MediaType`** is set to `Backup`. CAMERA ONLY
	RecordStreamType	REQ	<enum> `Main`, `Sub`	Requests a stream type that users want. This parameter is valid only when **`MediaType`** is set to `Search` or `Backup`. NVR ONLY
	URI	RES	<string>	URI

2.10.4 Examples

2.10.4.1 Getting the stream URI of Profile 2

To get the stream URI using the **`view`** action, **`Profile`**, **`MediaType`**, **`Mode`**, **`StreamType`**, **`TransportProtocol`**, and **`RTSPOverHTTP`** parameters must be sent together (For NVR, **`ClientType`** is also mandatory).

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=streamuri&action=view&Channel=0&Profile=2&MediaType=Live&Mode=Full&StreamType=RTPUnicast&TransportProtocol=TCP&RTSPOverHTTP=False
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
URI=rtsp://<Device IP>:<Port Number>/profile2/media.smp
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "URI": "rtsp://://<Device IP>:<Port Number>//profile2/media.smp"
```

```
}
```

The following example is for NVR only.

REQUEST

```
http://Device IP/stw-
cgi/media.cgi?msubmenu=streamuri&action=view&Channel=0&MediaType=Live&Mode=IframeOnly&
ClientType=Mobile&RTSPOverHttp=True&StreamType=RTPUnicast&TransportProtocol=TCP
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
URI=http://<Device IP>:<Port Number>/LiveChannel/0/media.smp/iframe
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "URI": " http://<Device IP>:<Port Number>/LiveChannel/0/media.smp/iframe "
}
```

2.10.4.2 Getting the stream URI of POS

To get the stream URI for POS using the **view** action, DeviceID, **MediaType**, **Mode**, and **ClientType** are mandatory.

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=streamuri&action=view&DeviceID=0&MediaType=Live&Mode=Full&Clien
tType=PC
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
URI=rtsp://<Device IP>:<Port Number>/PosLive/0/media.smp
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "URI": "rtsp://://<Device IP>:<Port Number>/ssssssssPosLive/0/media.smp "
}
```

2.11 Session Key

2.11.1 Description

The `sessionkey` submenu requests the session key settings.

> **Note**
> This chapter applies to NVR only.

Access level

Action	NVR
view	User

2.11.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=sessionkey&action=view[&<parameter>=<value>]
```

2.11.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	SessionKey	RES	<int>	Session key

2.11.4 Examples

2.11.4.1 Getting the session key information

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=sessionkey&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
SessionKey=1234567
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
  "SessionKey": "1234567"
}
```

2.12 Multicast

2.12.1 Description

The `multicast` submenu controls multicast operations.

> **Note**
> This chapter applies to network cameras only.

Access level

Action	Camera
control	Guest

2.12.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=multicast&action=control[&<parameter>=<value>...]
```

2.12.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
control	Channel	REQ	<Int>	Channel ID MULTI-DIRECTIONAL CAMERA ONLY
	Profile	REQ	<int>	Multicast profile **Note** `Profile` and `Mode` must be sent together with the `control` action.
	Mode	REQ	<enum> `Start`, `Stop`	Multicast mode

2.12.4 Examples

To use the `control` action, the `Profile` and `Mode` parameters must be set together.

2.12.4.1 Starting the multicast for Profile 2

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=multicast&action=control&Profile=2&Mode=Start
```

2.12.4.2 Stopping the multicast for Profile 2

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=multicast&action=control&Profile=2&Mode=Stop
```

With a Multi Directional camera, to use the `control` action, `Channel`, `Profile` and `Mode` parameters must be set together.

2.12.4.3 Starting the multicast for Channel 1, Profile 2

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=multicast&action=control&Channel=1&Profile=2&Mode=Start
```

2.12.4.4 Stopping the multicast for Channel1, Profile 2

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=multicast&action=control&Channel=1&Profile=2&Mode=Stop
```

2.13 Video Codec Info

2.13.1 Description

The `videocodecinfo` submenu requests video codec information.

Access level

Action	Camera	NVR	Encoder
view	Admin	User	Guest

2.13.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videocodecinfo&action=view&[&<parameter>=<value>...]
```

2.13.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	Channel	REQ	<csv>	Channel ID Uses from '0' to max channel count-1 for channel ID. A user can request multiple channels with comma. ENCODER ONLY MULTI DIRECTION CAMERA ONLY
	AllProfiles	REQ	<bool> `True`, `False`	When all profiles needs to be included in the response at once When user request with this parameter, encoder would send information about all profiles in requested channel. This parameter should be used with channel parameter.
	Profile	REQ	<int>	Profile number An encoder has different information per each profile. So User should request information separately.
	EncodingType	REQ	<enum> `MJPEG`, `MPEG4`, `H264`	Video encoding type
	ViewMode	REQ	<csv> `All`, `SingleView`, `Panaoram`, `DoublePanorama`, `QuadView`, `LeftHalfView`, `RightHalfView`, `Overview`, `360Panorama`, `QuadView.#`	View mode

	Channel.#.EncodingType	RES	<enum> `MJPEG`, `MPEG4`, `H264`	Video encoding type by channel ID
	<EncodingType>.IsDigitalPTZSupported	RES	<bool> `True`, `False`	Digital PTZ is supported by a particular encoding or not. CAMERA ONLY
	<EncodingType>.Compression.DefaultCompressionLevel	RES	<int>	Default value of the compression level CAMERA ONLY
	<EncodingType>.Compression.MinCompressionLevel	RES	<int>	Minimum value of the compression level CAMERA ONLY
	<EncodingType>.Compression.MaxCompressionLevel	RES	<int>	Maximum value of the compression level CAMERA ONLY
	<EncodingType>.General.<Width>X<Height>.Width	RES	<int>	Supported resolution - Width pixels
	<EncodingType>.General.<Width>X<Height>.Height	RES	<int>	Supported resolution - Height pixels
	<EncodingType>.General.<Width>X<Height>.MaxFPS	RES	<int>	Supported resolution - Maximum FPS
	<EncodingType>.General.<Width>X<Height>.MaxCBRTargetBitrate	RES	<int>	Supported resolution - Maximum CBR bitrate CAMERA ONLY
	<EncodingType>.General.<Width>X<Height>.MinCBRTargetBitrate	RES	<int>	Supported resolution - Minimum CBR bitrate CAMERA ONLY
	<EncodingType>.General.<Width>X<Height>.DefaultCBRTargetBitrate	RES	<int>	Supported resolution - Default CBR bitrate CAMERA ONLY
	<EncodingType>.General.<Width>X<Height>.MaxVBRTargetBitrate	RES	<int>	Supported resolution - Maximum VBR bitrate CAMERA ONLY
	<EncodingType>.General.<Width>X<Height>.MinVBRTargetBitrate	RES	<int>	Supported resolution - Minimum VBR bitrate CAMERA ONLY
	<EncodingType>.General.<Width>X<Height>.DefaultVBRTargetBitrate	RES	<int>	Supported resolution - Default VBR bitrate CAMERA ONLY
	<EncodingType>.General.<Width>X<Height>.MaxUnknownTargetBitrate	RES	<int>	Supported resolution - Maximum Unknown bitrate NVR ONLY
	<EncodingType>.General.<Width>X<Height>.MinUnknownTargetBitrate	RES	<int>	Supported resolution - Minimum Unknown bitrate NVR ONLY

<EncodingType>.General.<Width>X<Height>.IsTruncated	RES	<enum> `Normal, Crop`	It indicates whether target resolution can show entire image captured from sensor or not. If a resolution is a cut out of the original image, this parameter presents as Crop. CAMERA ONLY
<EncodingType>.General.<Width>X<Height>.DefaultFPS	RES	<int>	Supported resolution – Default FPS CAMERA ONLY
<EncodingType>.General.<Width>X<Height>.FrameLockMaxFPS	RES	<int>	Users can request their device not to fluctuate the framerate if the device supports the IsFixedFrameRateProfile feature. This indicates the maximum supported FPS for this situation. It would be shown only in supported models. CAMERA ONLY
<EncodingType>.Record.<Width>X<Height>.MaxCBRTargetBitrate	RES	<int>	The maximum CBR bitrate of a record profile Record profile is available only in MJPEG or H.264 CAMERA ONLY
<EncodingType>.Record.<Width>X<Height>.DefaultCBRTargetBitrate	RES	<int>	Record profile default CBR bitrate CAMERA ONLY
<EncodingType>.Record.<Width>X<Height>.MaxVBRTargetBitrate	RES	<int>	Record profile maximum VBR bitrate CAMERA ONLY
<EncodingType>.Record.<Width>X<Height>.DefaultVBRTargetBitrate	RES	<int>	Record profile default VBR bitrate CAMERA ONLY
<EncodingType>.Record.<Width>X<Height>.DefaultFPS	RES	<int>	Record profile – Default FPS CAMERA ONLY
<EncodingType>.Record.<Width>X<Height>.FrameLockMaxFPS	RES	<int>	User can request device not to fluctuate its framerate if a device supports IsFixedFrameRateProfile feature. This indicates about max supported FPS for this situation. It would be shown only in supported models. CAMERA ONLY
<EncodingType>.Email.<Width>X<Height>.MaxFPS	RES	<int>	Email profile maximum FPS Email profile is available only for MJPEG. CAMERA ONLY
<EncodingType>.Email.<Width>X<Height>.DefaultFPS	RES	<int>	Email profile default FPS Email profile is available only for MJPEG.

			CAMERA ONLY
<EncodingType>.DigitalPTZ.<Width>X<Height>.Width	RES	<int>	Supported resolution - Width in pixels CAMERA ONLY
<EncodingType>.DigitalPTZ.<Width>X<Height>.Height	RES	<int>	Supported resolution - Height in pixels CAMERA ONLY
<EncodingType>.DigitalPTZ.<Width>X<Height>.MaxFPS	RES	<int>	Supported resolution - Maximum FPS CAMERA ONLY
<EncodingType>.DigitalPTZ.<Width>X<Height>.DefaultFPS	RES	<int>	Supported resolution – Default FPS CAMERA ONLY
<EncodingType>.DigitalPTZ.<Width>X<Height>.MinCBRTargetBitrate	RES	<int>	Supported resolution - Minimum CBR bitrate CAMERA ONLY
<EncodingType>.DigitalPTZ.<Width>X<Height>.MaxCBRTargetBitrate	RES	<int>	Supported resolution - Maximum CBR bitrate CAMERA ONLY
<EncodingType>.DigitalPTZ.<Width>X<Height>.DefaultCBRTargetBitrate	RES	<int>	Supported resolution - Default CBR bitrate CAMERA ONLY
<EncodingType>.General.<ViewMode>.<Width>X<Height>.Width	RES	<int>	Supported resolution - width of pixels by encoding type and view mode CAMERA ONLY
<EncodingType>.General.<ViewMode>.<Width>X<Height>.Height	RES	<int>	Supported resolution - height of pixels by encoding type and view mode CAMERA ONLY
<EncodingType>.General.<ViewMode>.<Width>X<Height>.MaxFPS	RES	<int>	Supported resolution - maximum FPS by encoding type and view mode CAMERA ONLY
<EncodingType>.General.<ViewMode>.<Width>X<Height>.DefaultFPS	RES	<int>	Supported resolution - default FPS by encoding type and view mode CAMERA ONLY
<EncodingType>.General.<ViewMode>.<Width>X<Height>.MaxCBRTargetBitrate	RES	<int>	Supported resolution - maximum CBR bitrate by encoding type and view mode CAMERA ONLY
<EncodingType>.General.<ViewMode>.<Width>X<Height>.MinCBRTargetBitrate	RES	<int>	Supported resolution - minimum CBR bitrate by encoding type and view mode CAMERA ONLY

	<EncodingType>.General.<ViewMode>.<Width>X<Height>.DefaultCBRTargetBitrate	RES	<int>	Supported resolution - default CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.General.<ViewMode>.<Width>X<Height>.MaxVBRTargetBitrate	RES	<int>	Supported resolution - maximum VBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.General.<ViewMode>.<Width>X<Height>.MinVBRTargetBitrate	RES	<int>	Supported resolution - minimum VBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.General.<ViewMode>.<Width>X<Height>.DefaultVBRTargetBitrate	RES	<int>	Supported resolution - default VBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.General.<ViewMode>.<Width>X<Height>.MaxUnknownTargetBitrate	RES	<int>	Supported resolution - maximum Supported resolution – maximum unknown bitrate by encoding type and view mode NVR ONLY
	<EncodingType>.General.<ViewMode>.<Width>X<Height>.MinUnknownTargetBitrate	RES	<int>	Supported resolution – minimum unknown bitrate by encoding type and view mode NVR ONLY
	<EncodingType>.DigitalPTZ.<ViewMode>.<Width>X<Height>.Width	RES	<int>	Supported resolution - width of pixels by encoding type and view mode CAMERA ONLY
	<EncodingType>.DigitalPTZ.<ViewMode>.<Width>X<Height>.Height	RES	<int>	Supported resolution - height of pixels by encoding type and view mode CAMERA ONLY
	<EncodingType>.DigitalPTZ.<ViewMode>.<Width>X<Height>.MaxFPS	RES	<int>	Supported resolution - maximum FPS by encoding type and view mode CAMERA ONLY
	<EncodingType>.DigitalPTZ.<ViewMode>.<Width>X<Height>.DefaultFPS	RES	<int>	Supported resolution - default FPS by encoding type and view mode CAMERA ONLY
	<EncodingType>.DigitalPTZ.<ViewMode>.<Width>X<Height>.MinCBRTargetBitrate	RES	<int>	Supported resolution - minimum CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.DigitalPTZ.<ViewMode>.<Width>X<Height>.MaxCBRTargetBitrate	RES	<int>	Supported resolution - maximum CBR bitrate by encoding type and view mode

				CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.DefaultCBRTargetBitrate	RES	<int>	Supported resolution - default CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.Width	RES	<int>	Supported resolution - width in pixels by encoding type and view mode CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.Height	RES	<int>	Supported resolution - height in pixels by encoding type and view mode CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.MaxFPS	RES	<int>	Supported resolution - maximum FPS by encoding type and view mode CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.DefaultFPS	RES	<int>	Supported resolution – default FPS by encoding type and view mode CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.MinCBRTargetBitrate	RES	<int>	Supported resolution - minimum CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.MaxCBRTargetBitrate	RES	<int>	Supported resolution - maximum CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.Record.<ViewMode>.<Width>X<Height>.DefaultCBRTargetBitrate	RES	<int>	Supported resolution - default CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.Email.<ViewMode>.<Width>X<Height>.Width	RES	<int>	Supported resolution - width in pixels by encoding type and view mode CAMERA ONLY
	<EncodingType>.Email.<ViewMode>.<Width>X<Height>.Height	RES	<int>	Supported resolution - height in pixels by encoding type and view mode CAMERA ONLY
	<EncodingType>.Email.<ViewMode>.<Width>X<Height>.MaxFPS	RES	<int>	Supported resolution - maximum FPS by encoding type and view mode CAMERA ONLY
	<EncodingType>.Email.<ViewMode>.<Width>X<Height>.DefaultFPS	RES	<int>	Supported resolution - default FPS by encoding type and view mode

				CAMERA ONLY
	<EncodingType>.Email.<View Mode>.<Width>X<Height>.MinCBRTargetBitrate	RES	<int>	Supported resolution - minimum CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.Email.<View Mode>.<Width>X<Height>.MaxCBRTargetBitrate	RES	<int>	Supported resolution - maximum CBR bitrate by encoding type and view mode CAMERA ONLY
	<EncodingType>.Email.<View Mode>.<Width>X<Height>.DefaultCBRTargetBitrate	RES	<int>	Supported resolution - default CBR bitrate by encoding type and view mode CAMERA ONLY

2.13.4 Examples

2.13.4.1 Getting all resolution information based on Encoding Type

The command without **Profile** returns all available video resolution information based on Encoding Type.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videocodecinfo&action=view&EncodingType=MJPEG
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
 Channel.0.EncodingType=MJPEG
Channel.0.ViewMode=Overview
MJPEG.IsDigitalPTZSupported=False
MJPEG.General.1920X1080.Width=1920
MJPEG.General.1920X1080.Height=1080
MJPEG.General.1920X1080.MaxFPS=30000
MJPEG.General.1920X1080.DefaultFPS=15000
MJPEG.General.1920X1080.MaxCBRTargetBitrate=30720
MJPEG.General.1920X1080.MinCBRTargetBitrate=2048
MJPEG.General.1920X1080.DefaultCBRTargetBitrate=10240
MJPEG.General.1920X1080.MaxVBRTargetBitrate=30720
MJPEG.General.1920X1080.MinVBRTargetBitrate=2048
MJPEG.General.1920X1080.DefaultVBRTargetBitrate=10240
MJPEG.General.1920X1080.IsTruncated=Normal
MJPEG.General.1280X1024.Width=1280
MJPEG.General.1280X1024.Height=1024
MJPEG.General.1280X1024.MaxFPS=30000
MJPEG.General.1280X1024.DefaultFPS=15000
MJPEG.General.1280X1024.MaxCBRTargetBitrate=30720
MJPEG.General.1280X1024.MinCBRTargetBitrate=1024
MJPEG.General.1280X1024.DefaultCBRTargetBitrate=10240
MJPEG.General.1280X1024.MaxVBRTargetBitrate=30720
MJPEG.General.1280X1024.MinVBRTargetBitrate=1024
MJPEG.General.1280X1024.DefaultVBRTargetBitrate=10240
```

```
MJPEG.General.1280X1024.IsTruncated=Crop
MJPEG.General.1280X960.Width=1280
MJPEG.General.1280X960.Height=960
MJPEG.General.1280X960.MaxFPS=30000
MJPEG.General.1280X960.DefaultFPS=15000
MJPEG.General.1280X960.MaxCBRTargetBitrate=30720
MJPEG.General.1280X960.MinCBRTargetBitrate=1024
MJPEG.General.1280X960.DefaultCBRTargetBitrate=10240
MJPEG.General.1280X960.MaxVBRTargetBitrate=30720
MJPEG.General.1280X960.MinVBRTargetBitrate=1024
MJPEG.General.1280X960.DefaultVBRTargetBitrate=10240
MJPEG.General.1280X960.IsTruncated=Crop
MJPEG.General.1280X720.Width=1280
MJPEG.General.1280X720.Height=720
MJPEG.General.1280X720.MaxFPS=30000
MJPEG.General.1280X720.DefaultFPS=15000
MJPEG.General.1280X720.MaxCBRTargetBitrate=30720
MJPEG.General.1280X720.MinCBRTargetBitrate=1024
MJPEG.General.1280X720.DefaultCBRTargetBitrate=10240
MJPEG.General.1280X720.MaxVBRTargetBitrate=30720
MJPEG.General.1280X720.MinVBRTargetBitrate=1024
MJPEG.General.1280X720.DefaultVBRTargetBitrate=10240
MJPEG.General.1280X720.IsTruncated=Normal
MJPEG.General.1024X768.Width=1024
MJPEG.General.1024X768.Height=768
MJPEG.General.1024X768.MaxFPS=30000
MJPEG.General.1024X768.DefaultFPS=15000
MJPEG.General.1024X768.MaxCBRTargetBitrate=30720
MJPEG.General.1024X768.MinCBRTargetBitrate=1024
MJPEG.General.1024X768.DefaultCBRTargetBitrate=10240
MJPEG.General.1024X768.MaxVBRTargetBitrate=30720
MJPEG.General.1024X768.MinVBRTargetBitrate=1024
MJPEG.General.1024X768.DefaultVBRTargetBitrate=10240
MJPEG.General.1024X768.IsTruncated=Crop
MJPEG.General.800X600.Width=800
MJPEG.General.800X600.Height=600
MJPEG.General.800X600.MaxFPS=30000
MJPEG.General.800X600.DefaultFPS=15000
MJPEG.General.800X600.MaxCBRTargetBitrate=30720
MJPEG.General.800X600.MinCBRTargetBitrate=512
MJPEG.General.800X600.DefaultCBRTargetBitrate=10240
MJPEG.General.800X600.MaxVBRTargetBitrate=30720
MJPEG.General.800X600.MinVBRTargetBitrate=512
MJPEG.General.800X600.DefaultVBRTargetBitrate=10240
MJPEG.General.800X600.IsTruncated=Crop
MJPEG.General.800X448.Width=800
MJPEG.General.800X448.Height=448
MJPEG.General.800X448.MaxFPS=30000
MJPEG.General.800X448.DefaultFPS=15000
MJPEG.General.800X448.MaxCBRTargetBitrate=30720
```

```
MJPEG.General.800X448.MinCBRTargetBitrate=512
MJPEG.General.800X448.DefaultCBRTargetBitrate=10240
MJPEG.General.800X448.MaxVBRTargetBitrate=30720
MJPEG.General.800X448.MinVBRTargetBitrate=512
MJPEG.General.800X448.DefaultVBRTargetBitrate=10240
MJPEG.General.800X448.IsTruncated=Normal
MJPEG.General.720X576.Width=720
MJPEG.General.720X576.Height=576
MJPEG.General.720X576.MaxFPS=30000
MJPEG.General.720X576.DefaultFPS=15000
MJPEG.General.720X576.MaxCBRTargetBitrate=30720
MJPEG.General.720X576.MinCBRTargetBitrate=512
MJPEG.General.720X576.DefaultCBRTargetBitrate=10240
MJPEG.General.720X576.MaxVBRTargetBitrate=30720
MJPEG.General.720X576.MinVBRTargetBitrate=512
MJPEG.General.720X576.DefaultVBRTargetBitrate=10240
MJPEG.General.720X576.IsTruncated=Crop
MJPEG.General.720X480.Width=720
MJPEG.General.720X480.Height=480
MJPEG.General.720X480.MaxFPS=30000
MJPEG.General.720X480.DefaultFPS=15000
MJPEG.General.720X480.MaxCBRTargetBitrate=30720
MJPEG.General.720X480.MinCBRTargetBitrate=512
MJPEG.General.720X480.DefaultCBRTargetBitrate=10240
MJPEG.General.720X480.MaxVBRTargetBitrate=30720
MJPEG.General.720X480.MinVBRTargetBitrate=512
MJPEG.General.720X480.DefaultVBRTargetBitrate=10240
MJPEG.General.720X480.IsTruncated=Crop
MJPEG.General.640X480.Width=640
MJPEG.General.640X480.Height=480
MJPEG.General.640X480.MaxFPS=30000
MJPEG.General.640X480.DefaultFPS=15000
MJPEG.General.640X480.MaxCBRTargetBitrate=30720
MJPEG.General.640X480.MinCBRTargetBitrate=512
MJPEG.General.640X480.DefaultCBRTargetBitrate=10240
MJPEG.General.640X480.MaxVBRTargetBitrate=30720
MJPEG.General.640X480.MinVBRTargetBitrate=512
MJPEG.General.640X480.DefaultVBRTargetBitrate=10240
MJPEG.General.640X480.IsTruncated=Crop
MJPEG.General.640X360.Width=640
MJPEG.General.640X360.Height=360
MJPEG.General.640X360.MaxFPS=30000
MJPEG.General.640X360.DefaultFPS=15000
MJPEG.General.640X360.MaxCBRTargetBitrate=30720
MJPEG.General.640X360.MinCBRTargetBitrate=512
MJPEG.General.640X360.DefaultCBRTargetBitrate=10240
MJPEG.General.640X360.MaxVBRTargetBitrate=30720
MJPEG.General.640X360.MinVBRTargetBitrate=512
MJPEG.General.640X360.DefaultVBRTargetBitrate=10240
MJPEG.General.640X360.IsTruncated=Normal
```

```
MJPEG.General.320X240.Width=320
MJPEG.General.320X240.Height=240
MJPEG.General.320X240.MaxFPS=30000
MJPEG.General.320X240.DefaultFPS=15000
MJPEG.General.320X240.MaxCBRTargetBitrate=30720
MJPEG.General.320X240.MinCBRTargetBitrate=256
MJPEG.General.320X240.DefaultCBRTargetBitrate=10240
MJPEG.General.320X240.MaxVBRTargetBitrate=30720
MJPEG.General.320X240.MinVBRTargetBitrate=256
MJPEG.General.320X240.DefaultVBRTargetBitrate=10240
MJPEG.General.320X240.IsTruncated=Crop
MJPEG.Record.1920X1080.MaxFPS=2000
MJPEG.Record.1920X1080.DefaultFPS=2000
MJPEG.Record.1920X1080.MinCBRTargetBitrate=2048
MJPEG.Record.1920X1080.MaxCBRTargetBitrate=6144
MJPEG.Record.1920X1080.DefaultCBRTargetBitrate=6144
MJPEG.Record.1920X1080.MinVBRTargetBitrate=2048
MJPEG.Record.1920X1080.MaxVBRTargetBitrate=6144
MJPEG.Record.1920X1080.DefaultVBRTargetBitrate=6144
MJPEG.Record.1280X1024.MaxFPS=3000
MJPEG.Record.1280X1024.DefaultFPS=3000
MJPEG.Record.1280X1024.MinCBRTargetBitrate=1024
MJPEG.Record.1280X1024.MaxCBRTargetBitrate=6144
MJPEG.Record.1280X1024.DefaultCBRTargetBitrate=6144
MJPEG.Record.1280X1024.MinVBRTargetBitrate=1024
MJPEG.Record.1280X1024.MaxVBRTargetBitrate=6144
MJPEG.Record.1280X1024.DefaultVBRTargetBitrate=6144
MJPEG.Record.1280X960.MaxFPS=3000
MJPEG.Record.1280X960.DefaultFPS=3000
MJPEG.Record.1280X960.MinCBRTargetBitrate=1024
MJPEG.Record.1280X960.MaxCBRTargetBitrate=6144
MJPEG.Record.1280X960.DefaultCBRTargetBitrate=6144
MJPEG.Record.1280X960.MinVBRTargetBitrate=1024
MJPEG.Record.1280X960.MaxVBRTargetBitrate=6144
MJPEG.Record.1280X960.DefaultVBRTargetBitrate=6144
MJPEG.Record.1280X720.MaxFPS=3000
MJPEG.Record.1280X720.DefaultFPS=3000
MJPEG.Record.1280X720.MinCBRTargetBitrate=1024
MJPEG.Record.1280X720.MaxCBRTargetBitrate=6144
MJPEG.Record.1280X720.DefaultCBRTargetBitrate=6144
MJPEG.Record.1280X720.MinVBRTargetBitrate=1024
MJPEG.Record.1280X720.MaxVBRTargetBitrate=6144
MJPEG.Record.1280X720.DefaultVBRTargetBitrate=6144
MJPEG.Record.1024X768.MaxFPS=3000
MJPEG.Record.1024X768.DefaultFPS=3000
MJPEG.Record.1024X768.MinCBRTargetBitrate=1024
MJPEG.Record.1024X768.MaxCBRTargetBitrate=6144
MJPEG.Record.1024X768.DefaultCBRTargetBitrate=6144
MJPEG.Record.1024X768.MinVBRTargetBitrate=1024
MJPEG.Record.1024X768.MaxVBRTargetBitrate=6144
```

```
MJPEG.Record.1024X768.DefaultVBRTargetBitrate=6144
MJPEG.Record.800X600.MaxFPS=5000
MJPEG.Record.800X600.DefaultFPS=5000
MJPEG.Record.800X600.MinCBRTargetBitrate=512
MJPEG.Record.800X600.MaxCBRTargetBitrate=6144
MJPEG.Record.800X600.DefaultCBRTargetBitrate=6144
MJPEG.Record.800X600.MinVBRTargetBitrate=512
MJPEG.Record.800X600.MaxVBRTargetBitrate=6144
MJPEG.Record.800X600.DefaultVBRTargetBitrate=6144
MJPEG.Record.800X448.MaxFPS=5000
MJPEG.Record.800X448.DefaultFPS=5000
MJPEG.Record.800X448.MinCBRTargetBitrate=512
MJPEG.Record.800X448.MaxCBRTargetBitrate=6144
MJPEG.Record.800X448.DefaultCBRTargetBitrate=6144
MJPEG.Record.800X448.MinVBRTargetBitrate=512
MJPEG.Record.800X448.MaxVBRTargetBitrate=6144
MJPEG.Record.800X448.DefaultVBRTargetBitrate=6144
MJPEG.Record.720X576.MaxFPS=5000
MJPEG.Record.720X576.DefaultFPS=5000
MJPEG.Record.720X576.MinCBRTargetBitrate=512
MJPEG.Record.720X576.MaxCBRTargetBitrate=6144
MJPEG.Record.720X576.DefaultCBRTargetBitrate=6144
MJPEG.Record.720X576.MinVBRTargetBitrate=512
MJPEG.Record.720X576.MaxVBRTargetBitrate=6144
MJPEG.Record.720X576.DefaultVBRTargetBitrate=6144
MJPEG.Record.720X480.MaxFPS=5000
MJPEG.Record.720X480.DefaultFPS=5000
MJPEG.Record.720X480.MinCBRTargetBitrate=512
MJPEG.Record.720X480.MaxCBRTargetBitrate=6144
MJPEG.Record.720X480.DefaultCBRTargetBitrate=6144
MJPEG.Record.720X480.MinVBRTargetBitrate=512
MJPEG.Record.720X480.MaxVBRTargetBitrate=6144
MJPEG.Record.720X480.DefaultVBRTargetBitrate=6144
MJPEG.Record.640X480.MaxFPS=5000
MJPEG.Record.640X480.DefaultFPS=5000
MJPEG.Record.640X480.MinCBRTargetBitrate=512
MJPEG.Record.640X480.MaxCBRTargetBitrate=6144
MJPEG.Record.640X480.DefaultCBRTargetBitrate=6144
MJPEG.Record.640X480.MinVBRTargetBitrate=512
MJPEG.Record.640X480.MaxVBRTargetBitrate=6144
MJPEG.Record.640X480.DefaultVBRTargetBitrate=6144
MJPEG.Record.640X360.MaxFPS=5000
MJPEG.Record.640X360.DefaultFPS=5000
MJPEG.Record.640X360.MinCBRTargetBitrate=512
MJPEG.Record.640X360.MaxCBRTargetBitrate=6144
MJPEG.Record.640X360.DefaultCBRTargetBitrate=6144
MJPEG.Record.640X360.MinVBRTargetBitrate=512
MJPEG.Record.640X360.MaxVBRTargetBitrate=6144
MJPEG.Record.640X360.DefaultVBRTargetBitrate=6144
MJPEG.Record.320X240.MaxFPS=5000
```

```
MJPEG.Record.320X240.DefaultFPS=5000
MJPEG.Record.320X240.MinCBRTargetBitrate=256
MJPEG.Record.320X240.MaxCBRTargetBitrate=6144
MJPEG.Record.320X240.DefaultCBRTargetBitrate=6144
MJPEG.Record.320X240.MinVBRTargetBitrate=256
MJPEG.Record.320X240.MaxVBRTargetBitrate=6144
MJPEG.Record.320X240.DefaultVBRTargetBitrate=6144
MJPEG.Email.1920X1080.MaxFPS=5000
MJPEG.Email.1920X1080.DefaultFPS=5000
MJPEG.Email.1280X1024.MaxFPS=5000
MJPEG.Email.1280X1024.DefaultFPS=5000
MJPEG.Email.1280X960.MaxFPS=5000
MJPEG.Email.1280X960.DefaultFPS=5000
MJPEG.Email.1280X720.MaxFPS=5000
MJPEG.Email.1280X720.DefaultFPS=5000
MJPEG.Email.1024X768.MaxFPS=5000
MJPEG.Email.1024X768.DefaultFPS=5000
MJPEG.Email.800X600.MaxFPS=5000
MJPEG.Email.800X600.DefaultFPS=5000
MJPEG.Email.800X448.MaxFPS=5000
MJPEG.Email.800X448.DefaultFPS=5000
MJPEG.Email.720X576.MaxFPS=5000
MJPEG.Email.720X576.DefaultFPS=5000
MJPEG.Email.720X480.MaxFPS=5000
MJPEG.Email.720X480.DefaultFPS=5000
MJPEG.Email.640X480.MaxFPS=5000
MJPEG.Email.640X480.DefaultFPS=5000
MJPEG.Email.640X360.MaxFPS=5000
MJPEG.Email.640X360.DefaultFPS=5000
MJPEG.Email.320X240.MaxFPS=5000
MJPEG.Email.320X240.DefaultFPS=5000
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
   "VideoCodecInfo": [
       {
           "Channel": 0,
           "ViewModes": [
               {
                   "ViewMode": "Overview",
                   "Codecs": [
                       {
                           "EncodingType": "MJPEG",
                           "IsDigitalPTZSupported": false,
                           "General": [
                               {
                                   "Width": 1920,
                                   "Height": 1080,
```

```
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 2048,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 2048,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Normal"
                },
                {
                    "Width": 1280,
                    "Height": 1024,
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 1024,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 1024,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Crop"
                },
                {
                    "Width": 1280,
                    "Height": 960,
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 1024,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 1024,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Crop"
                },
                {
                    "Width": 1280,
                    "Height": 720,
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 1024,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 1024,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Normal"
                },
                {
```

```
                    "Width": 1024,
                    "Height": 768,
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 1024,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 1024,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Crop"
                },
                {
                    "Width": 800,
                    "Height": 600,
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 512,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Crop"
                },
                {
                    "Width": 800,
                    "Height": 448,
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 512,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Normal"
                },
                {
                    "Width": 720,
                    "Height": 576,
                    "MaxFPS": 30000,
                    "DefaultFPS": 15000,
                    "MaxCBRTargetBitrate": 30720,
                    "MinCBRTargetBitrate": 512,
                    "DefaultCBRTargetBitrate": 10240,
                    "MaxVBRTargetBitrate": 30720,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 10240,
                    "IsTruncated": "Crop"
```

```
                    },
                    {
                        "Width": 720,
                        "Height": 480,
                        "MaxFPS": 30000,
                        "DefaultFPS": 15000,
                        "MaxCBRTargetBitrate": 30720,
                        "MinCBRTargetBitrate": 512,
                        "DefaultCBRTargetBitrate": 10240,
                        "MaxVBRTargetBitrate": 30720,
                        "MinVBRTargetBitrate": 512,
                        "DefaultVBRTargetBitrate": 10240,
                        "IsTruncated": "Crop"
                    },
                    {
                        "Width": 640,
                        "Height": 480,
                        "MaxFPS": 30000,
                        "DefaultFPS": 15000,
                        "MaxCBRTargetBitrate": 30720,
                        "MinCBRTargetBitrate": 512,
                        "DefaultCBRTargetBitrate": 10240,
                        "MaxVBRTargetBitrate": 30720,
                        "MinVBRTargetBitrate": 512,
                        "DefaultVBRTargetBitrate": 10240,
                        "IsTruncated": "Crop"
                    },
                    {
                        "Width": 640,
                        "Height": 360,
                        "MaxFPS": 30000,
                        "DefaultFPS": 15000,
                        "MaxCBRTargetBitrate": 30720,
                        "MinCBRTargetBitrate": 512,
                        "DefaultCBRTargetBitrate": 10240,
                        "MaxVBRTargetBitrate": 30720,
                        "MinVBRTargetBitrate": 512,
                        "DefaultVBRTargetBitrate": 10240,
                        "IsTruncated": "Normal"
                    },
                    {
                        "Width": 320,
                        "Height": 240,
                        "MaxFPS": 30000,
                        "DefaultFPS": 15000,
                        "MaxCBRTargetBitrate": 30720,
                        "MinCBRTargetBitrate": 256,
                        "DefaultCBRTargetBitrate": 10240,
                        "MaxVBRTargetBitrate": 30720,
                        "MinVBRTargetBitrate": 256,
```

```
                "DefaultVBRTargetBitrate": 10240,
                "IsTruncated": "Crop"
            }
        ],
        "Record": [
            {
                "Width": 1920,
                "Height": 1080,
                "MaxFPS": 2000,
                "DefaultFPS": 2000,
                "MinCBRTargetBitrate": 2048,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 2048,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
            },
            {
                "Width": 1280,
                "Height": 1024,
                "MaxFPS": 3000,
                "DefaultFPS": 3000,
                "MinCBRTargetBitrate": 1024,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 1024,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
            },
            {
                "Width": 1280,
                "Height": 960,
                "MaxFPS": 3000,
                "DefaultFPS": 3000,
                "MinCBRTargetBitrate": 1024,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 1024,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
            },
            {
                "Width": 1280,
                "Height": 720,
                "MaxFPS": 3000,
                "DefaultFPS": 3000,
                "MinCBRTargetBitrate": 1024,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 1024,
```

```
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
            },
            {
                "Width": 1024,
                "Height": 768,
                "MaxFPS": 3000,
                "DefaultFPS": 3000,
                "MinCBRTargetBitrate": 1024,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 1024,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
            },
            {
                "Width": 800,
                "Height": 600,
                "MaxFPS": 5000,
                "DefaultFPS": 5000,
                "MinCBRTargetBitrate": 512,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 512,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
            },
            {
                "Width": 800,
                "Height": 448,
                "MaxFPS": 5000,
                "DefaultFPS": 5000,
                "MinCBRTargetBitrate": 512,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 512,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
            },
            {
                "Width": 720,
                "Height": 576,
                "MaxFPS": 5000,
                "DefaultFPS": 5000,
                "MinCBRTargetBitrate": 512,
                "MaxCBRTargetBitrate": 6144,
                "DefaultCBRTargetBitrate": 6144,
                "MinVBRTargetBitrate": 512,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 6144
```

```
                        },
                        {
                            "Width": 720,
                            "Height": 480,
                            "MaxFPS": 5000,
                            "DefaultFPS": 5000,
                            "MinCBRTargetBitrate": 512,
                            "MaxCBRTargetBitrate": 6144,
                            "DefaultCBRTargetBitrate": 6144,
                            "MinVBRTargetBitrate": 512,
                            "MaxVBRTargetBitrate": 6144,
                            "DefaultVBRTargetBitrate": 6144
                        },
                        {
                            "Width": 640,
                            "Height": 480,
                            "MaxFPS": 5000,
                            "DefaultFPS": 5000,
                            "MinCBRTargetBitrate": 512,
                            "MaxCBRTargetBitrate": 6144,
                            "DefaultCBRTargetBitrate": 6144,
                            "MinVBRTargetBitrate": 512,
                            "MaxVBRTargetBitrate": 6144,
                            "DefaultVBRTargetBitrate": 6144
                        },
                        {
                            "Width": 640,
                            "Height": 360,
                            "MaxFPS": 5000,
                            "DefaultFPS": 5000,
                            "MinCBRTargetBitrate": 512,
                            "MaxCBRTargetBitrate": 6144,
                            "DefaultCBRTargetBitrate": 6144,
                            "MinVBRTargetBitrate": 512,
                            "MaxVBRTargetBitrate": 6144,
                            "DefaultVBRTargetBitrate": 6144
                        },
                        {
                            "Width": 320,
                            "Height": 240,
                            "MaxFPS": 5000,
                            "DefaultFPS": 5000,
                            "MinCBRTargetBitrate": 256,
                            "MaxCBRTargetBitrate": 6144,
                            "DefaultCBRTargetBitrate": 6144,
                            "MinVBRTargetBitrate": 256,
                            "MaxVBRTargetBitrate": 6144,
                            "DefaultVBRTargetBitrate": 6144
                        }
                    ],
```

```
                        "Email": [
                            {
                                "Width": 1920,
                                "Height": 1080,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 1280,
                                "Height": 1024,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 1280,
                                "Height": 960,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 1280,
                                "Height": 720,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 1024,
                                "Height": 768,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 800,
                                "Height": 600,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 800,
                                "Height": 448,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 720,
                                "Height": 576,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
```

```
                                "Width": 720,
                                "Height": 480,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 640,
                                "Height": 480,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 640,
                                "Height": 360,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            },
                            {
                                "Width": 320,
                                "Height": 240,
                                "MaxFPS": 5000,
                                "DefaultFPS": 5000
                            }
                        ]
                    }
                ]
            }
        ]
    }
]
}
```


The following response example is for NVR only.

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
 Channel.0.Profile=1
Channel.0.ViewMode=Overview
Channel.0.EncodingType=MJPEG
MJPEG.IsDigitalPTZSupported=False
MJPEG.General.4000X3000.Width=4000
MJPEG.General.4000X3000.Height=3000
MJPEG.General.4000X3000.MaxFPS=2
MJPEG.General.4000X3000.MinUnknownTargetBitrate=5120
MJPEG.General.4000X3000.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.4000X3000.Width=4000
MJPEG.General.Overview.4000X3000.Height=3000
MJPEG.General.Overview.4000X3000.MaxFPS=2
MJPEG.General.Overview.4000X3000.MinUnknownTargetBitrate=5120
```

```
MJPEG.General.Overview.4000X3000.MaxUnknownTargetBitrate=6144
MJPEG.General.3840X2160.Width=3840
MJPEG.General.3840X2160.Height=2160
MJPEG.General.3840X2160.MaxFPS=2
MJPEG.General.3840X2160.MinUnknownTargetBitrate=4096
MJPEG.General.3840X2160.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.3840X2160.Width=3840
MJPEG.General.Overview.3840X2160.Height=2160
MJPEG.General.Overview.3840X2160.MaxFPS=2
MJPEG.General.Overview.3840X2160.MinUnknownTargetBitrate=4096
MJPEG.General.Overview.3840X2160.MaxUnknownTargetBitrate=6144
MJPEG.General.2592X1944.Width=2592
MJPEG.General.2592X1944.Height=1944
MJPEG.General.2592X1944.MaxFPS=2
MJPEG.General.2592X1944.MinUnknownTargetBitrate=2048
MJPEG.General.2592X1944.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.2592X1944.Width=2592
MJPEG.General.Overview.2592X1944.Height=1944
MJPEG.General.Overview.2592X1944.MaxFPS=2
MJPEG.General.Overview.2592X1944.MinUnknownTargetBitrate=2048
MJPEG.General.Overview.2592X1944.MaxUnknownTargetBitrate=6144
MJPEG.General.2592X1464.Width=2592
MJPEG.General.2592X1464.Height=1464
MJPEG.General.2592X1464.MaxFPS=2
MJPEG.General.2592X1464.MinUnknownTargetBitrate=2048
MJPEG.General.2592X1464.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.2592X1464.Width=2592
MJPEG.General.Overview.2592X1464.Height=1464
MJPEG.General.Overview.2592X1464.MaxFPS=2
MJPEG.General.Overview.2592X1464.MinUnknownTargetBitrate=2048
MJPEG.General.Overview.2592X1464.MaxUnknownTargetBitrate=6144
MJPEG.General.1920X1080.Width=1920
MJPEG.General.1920X1080.Height=1080
MJPEG.General.1920X1080.MaxFPS=5
MJPEG.General.1920X1080.MinUnknownTargetBitrate=1024
MJPEG.General.1920X1080.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1920X1080.Width=1920
MJPEG.General.Overview.1920X1080.Height=1080
MJPEG.General.Overview.1920X1080.MaxFPS=5
MJPEG.General.Overview.1920X1080.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1920X1080.MaxUnknownTargetBitrate=6144
MJPEG.General.1600X1200.Width=1600
MJPEG.General.1600X1200.Height=1200
MJPEG.General.1600X1200.MaxFPS=5
MJPEG.General.1600X1200.MinUnknownTargetBitrate=1024
MJPEG.General.1600X1200.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1600X1200.Width=1600
MJPEG.General.Overview.1600X1200.Height=1200
MJPEG.General.Overview.1600X1200.MaxFPS=5
MJPEG.General.Overview.1600X1200.MinUnknownTargetBitrate=1024
```

```
MJPEG.General.Overview.1600X1200.MaxUnknownTargetBitrate=6144
MJPEG.General.1280X1024.Width=1280
MJPEG.General.1280X1024.Height=1024
MJPEG.General.1280X1024.MaxFPS=5
MJPEG.General.1280X1024.MinUnknownTargetBitrate=1024
MJPEG.General.1280X1024.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1280X1024.Width=1280
MJPEG.General.Overview.1280X1024.Height=1024
MJPEG.General.Overview.1280X1024.MaxFPS=5
MJPEG.General.Overview.1280X1024.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1280X1024.MaxUnknownTargetBitrate=6144
MJPEG.General.1280X960.Width=1280
MJPEG.General.1280X960.Height=960
MJPEG.General.1280X960.MaxFPS=5
MJPEG.General.1280X960.MinUnknownTargetBitrate=1024
MJPEG.General.1280X960.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1280X960.Width=1280
MJPEG.General.Overview.1280X960.Height=960
MJPEG.General.Overview.1280X960.MaxFPS=5
MJPEG.General.Overview.1280X960.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1280X960.MaxUnknownTargetBitrate=6144
MJPEG.General.1280X720.Width=1280
MJPEG.General.1280X720.Height=720
MJPEG.General.1280X720.MaxFPS=5
MJPEG.General.1280X720.MinUnknownTargetBitrate=1024
MJPEG.General.1280X720.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1280X720.Width=1280
MJPEG.General.Overview.1280X720.Height=720
MJPEG.General.Overview.1280X720.MaxFPS=5
MJPEG.General.Overview.1280X720.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1280X720.MaxUnknownTargetBitrate=6144
MJPEG.General.1024X768.Width=1024
MJPEG.General.1024X768.Height=768
MJPEG.General.1024X768.MaxFPS=5
MJPEG.General.1024X768.MinUnknownTargetBitrate=1024
MJPEG.General.1024X768.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1024X768.Width=1024
MJPEG.General.Overview.1024X768.Height=768
MJPEG.General.Overview.1024X768.MaxFPS=5
MJPEG.General.Overview.1024X768.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1024X768.MaxUnknownTargetBitrate=6144
MJPEG.General.800X600.Width=800
MJPEG.General.800X600.Height=600
MJPEG.General.800X600.MaxFPS=5
MJPEG.General.800X600.MinUnknownTargetBitrate=512
MJPEG.General.800X600.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.800X600.Width=800
MJPEG.General.Overview.800X600.Height=600
MJPEG.General.Overview.800X600.MaxFPS=5
MJPEG.General.Overview.800X600.MinUnknownTargetBitrate=512
```

```
MJPEG.General.Overview.800X600.MaxUnknownTargetBitrate=6144
MJPEG.General.800X448.Width=800
MJPEG.General.800X448.Height=448
MJPEG.General.800X448.MaxFPS=5
MJPEG.General.800X448.MinUnknownTargetBitrate=512
MJPEG.General.800X448.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.800X448.Width=800
MJPEG.General.Overview.800X448.Height=448
MJPEG.General.Overview.800X448.MaxFPS=5
MJPEG.General.Overview.800X448.MinUnknownTargetBitrate=512
MJPEG.General.Overview.800X448.MaxUnknownTargetBitrate=6144
MJPEG.General.720X576.Width=720
MJPEG.General.720X576.Height=576
MJPEG.General.720X576.MaxFPS=5
MJPEG.General.720X576.MinUnknownTargetBitrate=512
MJPEG.General.720X576.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.720X576.Width=720
MJPEG.General.Overview.720X576.Height=576
MJPEG.General.Overview.720X576.MaxFPS=5
MJPEG.General.Overview.720X576.MinUnknownTargetBitrate=512
MJPEG.General.Overview.720X576.MaxUnknownTargetBitrate=6144
MJPEG.General.720X480.Width=720
MJPEG.General.720X480.Height=480
MJPEG.General.720X480.MaxFPS=5
MJPEG.General.720X480.MinUnknownTargetBitrate=512
MJPEG.General.720X480.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.720X480.Width=720
MJPEG.General.Overview.720X480.Height=480
MJPEG.General.Overview.720X480.MaxFPS=5
MJPEG.General.Overview.720X480.MinUnknownTargetBitrate=512
MJPEG.General.Overview.720X480.MaxUnknownTargetBitrate=6144
MJPEG.General.640X480.Width=640
MJPEG.General.640X480.Height=480
MJPEG.General.640X480.MaxFPS=5
MJPEG.General.640X480.MinUnknownTargetBitrate=512
MJPEG.General.640X480.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.640X480.Width=640
MJPEG.General.Overview.640X480.Height=480
MJPEG.General.Overview.640X480.MaxFPS=5
MJPEG.General.Overview.640X480.MinUnknownTargetBitrate=512
MJPEG.General.Overview.640X480.MaxUnknownTargetBitrate=6144
MJPEG.General.640X360.Width=640
MJPEG.General.640X360.Height=360
MJPEG.General.640X360.MaxFPS=5
MJPEG.General.640X360.MinUnknownTargetBitrate=512
MJPEG.General.640X360.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.640X360.Width=640
MJPEG.General.Overview.640X360.Height=360
MJPEG.General.Overview.640X360.MaxFPS=5
MJPEG.General.Overview.640X360.MinUnknownTargetBitrate=512
```

```
MJPEG.General.Overview.640X360.MaxUnknownTargetBitrate=6144
MJPEG.General.320X240.Width=320
MJPEG.General.320X240.Height=240
MJPEG.General.320X240.MaxFPS=5
MJPEG.General.320X240.MinUnknownTargetBitrate=256
MJPEG.General.320X240.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.320X240.Width=320
MJPEG.General.Overview.320X240.Height=240
MJPEG.General.Overview.320X240.MaxFPS=5
MJPEG.General.Overview.320X240.MinUnknownTargetBitrate=256
MJPEG.General.Overview.320X240.MaxUnknownTargetBitrate=6144
...
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
"VideoCodecInfo":   [{
"Channel":  0,
"Profiles":[{
    "Profile":      1,
    "ViewModes":    [{
                                                        "ViewMode":
    "Overview",
                                                        "Codecs":       [{
                                                                "EncodingType":
    "MJPEG",

    "IsDigitalPTZSupported":false,
                                                                "General":      [{
                                                                        "Width":
    4000,
                                                                        "Height":
    3000,
                                                                        "MaxFPS":
    2,
    "MinUnknownTargetBitrate":      5120,

    "MaxUnknownTargetBitrate":      6144
                                                                }, {
                                                                "Width":
    3840,
                                                                "Height":
    2160,
                                                                "MaxFPS":
    2,
    "MinUnknownTargetBitrate":      4096,

    "MaxUnknownTargetBitrate":      6144
                                                                }, {
```

```
                                                                    "Width":
2592,
                                                                    "Height":
1944,
                                                                    "MaxFPS":
2,
"MinUnknownTargetBitrate":      2048,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
2592,
                                                                    "Height":
1464,
                                                                    "MaxFPS":
2,
"MinUnknownTargetBitrate":      2048,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
1920,
                                                                    "Height":
1080,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
1600,
                                                                    "Height":
1200,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
1280,
                                                                    "Height":
1024,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
```

```
    1280,
                                                                    "Height":
    960,
                                                                    "MaxFPS":
    5,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
    1280,
                                                                    "Height":
    720,
                                                                    "MaxFPS":
    5,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
    1024,
                                                                    "Height":
    768,
                                                                    "MaxFPS":
    5,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
    800,
                                                                    "Height":
    600,
                                                                    "MaxFPS":
    5,
    "MinUnknownTargetBitrate":      512,
    "MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
    800,
                                                                    "Height":
    448,
                                                                    "MaxFPS":
    5,
    "MinUnknownTargetBitrate":      512,
    "MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
    720,
```

```
                                                                    "Height":
576,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
720,
                                                                    "Height":
480,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
640,
                                                                    "Height":
480,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
640,
                                                                    "Height":
360,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
                                                                    "Width":
320,
                                                                    "Height":
240,
                                                                    "MaxFPS":
5,
"MinUnknownTargetBitrate":      256,
"MaxUnknownTargetBitrate":      6144
                                                                    }]
                                                                }]
 }]
}]
```

```
}
...
  ]
}
```

2.13.4.2 Getting all resolution information based on view modes

The following command returns all available video resolution information based on view mode.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videocodecinfo&action=view&ViewMode=All
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.EncodingType=MJPEG
Channel.0.ViewMode=Overview
MJPEG.IsDigitalPTZSupported=False
MJPEG.General.3328X1872.Width=3328
MJPEG.General.3328X1872.Height=1872
MJPEG.General.3328X1872.MaxFPS=5000
MJPEG.General.3328X1872.DefaultFPS=5000
MJPEG.General.3328X1872.MaxCBRTargetBitrate=30720
MJPEG.General.3328X1872.MinCBRTargetBitrate=4096
MJPEG.General.3328X1872.DefaultCBRTargetBitrate=12288
MJPEG.General.3328X1872.MaxVBRTargetBitrate=30720
MJPEG.General.3328X1872.MinVBRTargetBitrate=4096
MJPEG.General.3328X1872.DefaultVBRTargetBitrate=12288
MJPEG.General.3328X1872.IsTruncated=Normal
MJPEG.General.3072X1728.Width=3072
MJPEG.General.3072X1728.Height=1728
MJPEG.General.3072X1728.MaxFPS=5000
MJPEG.General.3072X1728.DefaultFPS=5000
MJPEG.General.3072X1728.MaxCBRTargetBitrate=30720
MJPEG.General.3072X1728.MinCBRTargetBitrate=4096
MJPEG.General.3072X1728.DefaultCBRTargetBitrate=12288
MJPEG.General.3072X1728.MaxVBRTargetBitrate=30720
MJPEG.General.3072X1728.MinVBRTargetBitrate=4096
MJPEG.General.3072X1728.DefaultVBRTargetBitrate=12288
MJPEG.General.3072X1728.IsTruncated=Normal
MJPEG.General.2592X1944.Width=2592
MJPEG.General.2592X1944.Height=1944
MJPEG.General.2592X1944.MaxFPS=5000
MJPEG.General.2592X1944.DefaultFPS=5000
MJPEG.General.2592X1944.MaxCBRTargetBitrate=30720
MJPEG.General.2592X1944.MinCBRTargetBitrate=3072
MJPEG.General.2592X1944.DefaultCBRTargetBitrate=10240
MJPEG.General.2592X1944.MaxVBRTargetBitrate=30720
MJPEG.General.2592X1944.MinVBRTargetBitrate=3072
MJPEG.General.2592X1944.DefaultVBRTargetBitrate=10240
MJPEG.General.2592X1944.IsTruncated=Crop
```

```
MJPEG.General.2688X1520.Width=2688
MJPEG.General.2688X1520.Height=1520
MJPEG.General.2688X1520.MaxFPS=5000
MJPEG.General.2688X1520.DefaultFPS=5000
MJPEG.General.2688X1520.MaxCBRTargetBitrate=30720
MJPEG.General.2688X1520.MinCBRTargetBitrate=3072
MJPEG.General.2688X1520.DefaultCBRTargetBitrate=10240
MJPEG.General.2688X1520.MaxVBRTargetBitrate=30720
MJPEG.General.2688X1520.MinVBRTargetBitrate=3072
MJPEG.General.2688X1520.DefaultVBRTargetBitrate=10240
MJPEG.General.2688X1520.IsTruncated=Crop
MJPEG.General.1920X1080.Width=1920
MJPEG.General.1920X1080.Height=1080
MJPEG.General.1920X1080.MaxFPS=30000
MJPEG.General.1920X1080.DefaultFPS=15000
MJPEG.General.1920X1080.MaxCBRTargetBitrate=30720
MJPEG.General.1920X1080.MinCBRTargetBitrate=2048
MJPEG.General.1920X1080.DefaultCBRTargetBitrate=10240
MJPEG.General.1920X1080.MaxVBRTargetBitrate=30720
MJPEG.General.1920X1080.MinVBRTargetBitrate=2048
MJPEG.General.1920X1080.DefaultVBRTargetBitrate=10240
MJPEG.General.1920X1080.IsTruncated=Normal
MJPEG.General.1600X1200.Width=1600
MJPEG.General.1600X1200.Height=1200
MJPEG.General.1600X1200.MaxFPS=30000
MJPEG.General.1600X1200.DefaultFPS=15000
MJPEG.General.1600X1200.MaxCBRTargetBitrate=30720
MJPEG.General.1600X1200.MinCBRTargetBitrate=2048
MJPEG.General.1600X1200.DefaultCBRTargetBitrate=10240
MJPEG.General.1600X1200.MaxVBRTargetBitrate=30720
MJPEG.General.1600X1200.MinVBRTargetBitrate=2048
MJPEG.General.1600X1200.DefaultVBRTargetBitrate=10240
MJPEG.General.1600X1200.IsTruncated=Crop
MJPEG.General.1280X1024.Width=1280
MJPEG.General.1280X1024.Height=1024
MJPEG.General.1280X1024.MaxFPS=30000
MJPEG.General.1280X1024.DefaultFPS=15000
MJPEG.General.1280X1024.MaxCBRTargetBitrate=30720
MJPEG.General.1280X1024.MinCBRTargetBitrate=1024
MJPEG.General.1280X1024.DefaultCBRTargetBitrate=10240
MJPEG.General.1280X1024.MaxVBRTargetBitrate=30720
MJPEG.General.1280X1024.MinVBRTargetBitrate=1024
MJPEG.General.1280X1024.DefaultVBRTargetBitrate=10240
MJPEG.General.1280X1024.IsTruncated=Crop
MJPEG.General.1280X960.Width=1280
MJPEG.General.1280X960.Height=960
MJPEG.General.1280X960.MaxFPS=30000
MJPEG.General.1280X960.DefaultFPS=15000
MJPEG.General.1280X960.MaxCBRTargetBitrate=30720
MJPEG.General.1280X960.MinCBRTargetBitrate=1024
```

```
MJPEG.General.1280X960.DefaultCBRTargetBitrate=10240
MJPEG.General.1280X960.MaxVBRTargetBitrate=30720
MJPEG.General.1280X960.MinVBRTargetBitrate=1024
MJPEG.General.1280X960.DefaultVBRTargetBitrate=10240
MJPEG.General.1280X960.IsTruncated=Crop
MJPEG.General.1280X720.Width=1280
MJPEG.General.1280X720.Height=720
MJPEG.General.1280X720.MaxFPS=30000
MJPEG.General.1280X720.DefaultFPS=15000
MJPEG.General.1280X720.MaxCBRTargetBitrate=30720
MJPEG.General.1280X720.MinCBRTargetBitrate=1024
MJPEG.General.1280X720.DefaultCBRTargetBitrate=10240
MJPEG.General.1280X720.MaxVBRTargetBitrate=30720
MJPEG.General.1280X720.MinVBRTargetBitrate=1024
MJPEG.General.1280X720.DefaultVBRTargetBitrate=10240
MJPEG.General.1280X720.IsTruncated=Normal
MJPEG.General.1024X768.Width=1024
MJPEG.General.1024X768.Height=768
MJPEG.General.1024X768.MaxFPS=30000
MJPEG.General.1024X768.DefaultFPS=15000
MJPEG.General.1024X768.MaxCBRTargetBitrate=30720
MJPEG.General.1024X768.MinCBRTargetBitrate=1024
MJPEG.General.1024X768.DefaultCBRTargetBitrate=10240
MJPEG.General.1024X768.MaxVBRTargetBitrate=30720
MJPEG.General.1024X768.MinVBRTargetBitrate=1024
MJPEG.General.1024X768.DefaultVBRTargetBitrate=10240
MJPEG.General.1024X768.IsTruncated=Crop
MJPEG.General.800X600.Width=800
MJPEG.General.800X600.Height=600
MJPEG.General.800X600.MaxFPS=30000
MJPEG.General.800X600.DefaultFPS=15000
MJPEG.General.800X600.MaxCBRTargetBitrate=30720
MJPEG.General.800X600.MinCBRTargetBitrate=512
MJPEG.General.800X600.DefaultCBRTargetBitrate=10240
MJPEG.General.800X600.MaxVBRTargetBitrate=30720
MJPEG.General.800X600.MinVBRTargetBitrate=512
MJPEG.General.800X600.DefaultVBRTargetBitrate=10240
MJPEG.General.800X600.IsTruncated=Crop
MJPEG.General.800X448.Width=800
MJPEG.General.800X448.Height=448
MJPEG.General.800X448.MaxFPS=30000
MJPEG.General.800X448.DefaultFPS=15000
MJPEG.General.800X448.MaxCBRTargetBitrate=30720
MJPEG.General.800X448.MinCBRTargetBitrate=512
MJPEG.General.800X448.DefaultCBRTargetBitrate=10240
MJPEG.General.800X448.MaxVBRTargetBitrate=30720
MJPEG.General.800X448.MinVBRTargetBitrate=512
MJPEG.General.800X448.DefaultVBRTargetBitrate=10240
MJPEG.General.800X448.IsTruncated=Normal
MJPEG.General.720X576.Width=720
```

```
MJPEG.General.720X576.Height=576
MJPEG.General.720X576.MaxFPS=30000
MJPEG.General.720X576.DefaultFPS=15000
MJPEG.General.720X576.MaxCBRTargetBitrate=30720
MJPEG.General.720X576.MinCBRTargetBitrate=512
MJPEG.General.720X576.DefaultCBRTargetBitrate=10240
MJPEG.General.720X576.MaxVBRTargetBitrate=30720
MJPEG.General.720X576.MinVBRTargetBitrate=512
MJPEG.General.720X576.DefaultVBRTargetBitrate=10240
MJPEG.General.720X576.IsTruncated=Crop
MJPEG.General.720X480.Width=720
MJPEG.General.720X480.Height=480
MJPEG.General.720X480.MaxFPS=30000
MJPEG.General.720X480.DefaultFPS=15000
MJPEG.General.720X480.MaxCBRTargetBitrate=30720
MJPEG.General.720X480.MinCBRTargetBitrate=512
MJPEG.General.720X480.DefaultCBRTargetBitrate=10240
MJPEG.General.720X480.MaxVBRTargetBitrate=30720
MJPEG.General.720X480.MinVBRTargetBitrate=512
MJPEG.General.720X480.DefaultVBRTargetBitrate=10240
MJPEG.General.720X480.IsTruncated=Crop
MJPEG.General.640X480.Width=640
MJPEG.General.640X480.Height=480
MJPEG.General.640X480.MaxFPS=30000
MJPEG.General.640X480.DefaultFPS=15000
MJPEG.General.640X480.MaxCBRTargetBitrate=30720
MJPEG.General.640X480.MinCBRTargetBitrate=512
MJPEG.General.640X480.DefaultCBRTargetBitrate=10240
MJPEG.General.640X480.MaxVBRTargetBitrate=30720
MJPEG.General.640X480.MinVBRTargetBitrate=512
MJPEG.General.640X480.DefaultVBRTargetBitrate=10240
MJPEG.General.640X480.IsTruncated=Crop
MJPEG.General.640X360.Width=640
MJPEG.General.640X360.Height=360
MJPEG.General.640X360.MaxFPS=30000
MJPEG.General.640X360.DefaultFPS=15000
MJPEG.General.640X360.MaxCBRTargetBitrate=30720
MJPEG.General.640X360.MinCBRTargetBitrate=512
MJPEG.General.640X360.DefaultCBRTargetBitrate=10240
MJPEG.General.640X360.MaxVBRTargetBitrate=30720
MJPEG.General.640X360.MinVBRTargetBitrate=512
MJPEG.General.640X360.DefaultVBRTargetBitrate=10240
MJPEG.General.640X360.IsTruncated=Normal
MJPEG.General.320X240.Width=320
MJPEG.General.320X240.Height=240
MJPEG.General.320X240.MaxFPS=30000
MJPEG.General.320X240.DefaultFPS=15000
MJPEG.General.320X240.MaxCBRTargetBitrate=30720
MJPEG.General.320X240.MinCBRTargetBitrate=256
MJPEG.General.320X240.DefaultCBRTargetBitrate=10240
```

```
MJPEG.General.320X240.MaxVBRTargetBitrate=30720
MJPEG.General.320X240.MinVBRTargetBitrate=256
MJPEG.General.320X240.DefaultVBRTargetBitrate=10240
MJPEG.General.320X240.IsTruncated=Crop
MJPEG.Record.3328X1872.MaxFPS=1000
MJPEG.Record.3328X1872.DefaultFPS=1000
MJPEG.Record.3328X1872.MinCBRTargetBitrate=4096
MJPEG.Record.3328X1872.MaxCBRTargetBitrate=6144
MJPEG.Record.3328X1872.DefaultCBRTargetBitrate=6144
MJPEG.Record.3328X1872.MinVBRTargetBitrate=4096
MJPEG.Record.3328X1872.MaxVBRTargetBitrate=6144
MJPEG.Record.3328X1872.DefaultVBRTargetBitrate=6144
MJPEG.Record.3072X1728.MaxFPS=1000
MJPEG.Record.3072X1728.DefaultFPS=1000
MJPEG.Record.3072X1728.MinCBRTargetBitrate=4096
MJPEG.Record.3072X1728.MaxCBRTargetBitrate=6144
MJPEG.Record.3072X1728.DefaultCBRTargetBitrate=6144
MJPEG.Record.3072X1728.MinVBRTargetBitrate=4096
MJPEG.Record.3072X1728.MaxVBRTargetBitrate=6144
MJPEG.Record.3072X1728.DefaultVBRTargetBitrate=6144
MJPEG.Record.2592X1944.MaxFPS=1000
MJPEG.Record.2592X1944.DefaultFPS=1000
MJPEG.Record.2592X1944.MinCBRTargetBitrate=3072
MJPEG.Record.2592X1944.MaxCBRTargetBitrate=6144
MJPEG.Record.2592X1944.DefaultCBRTargetBitrate=6144
MJPEG.Record.2592X1944.MinVBRTargetBitrate=3072
MJPEG.Record.2592X1944.MaxVBRTargetBitrate=6144
MJPEG.Record.2592X1944.DefaultVBRTargetBitrate=6144
MJPEG.Record.2688X1520.MaxFPS=1000
MJPEG.Record.2688X1520.DefaultFPS=1000
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MJPEG.Record.1920X1080.MaxFPS=2000
MJPEG.Record.1920X1080.DefaultFPS=2000
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MJPEG.Record.1600X1200.DefaultFPS=2000
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MJPEG.Email.2592X1944.MaxFPS=5000
MJPEG.Email.2592X1944.DefaultFPS=5000
MJPEG.Email.2688X1520.MaxFPS=5000
MJPEG.Email.2688X1520.DefaultFPS=5000
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MJPEG.Email.1920X1080.DefaultFPS=5000
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MJPEG.Email.720X480.DefaultFPS=5000
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MJPEG.Email.640X360.MaxFPS=5000
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MJPEG.Email.320X240.MaxFPS=5000
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H264.Record.1280X960.MaxVBRTargetBitrate=6144
H264.Record.1280X960.DefaultVBRTargetBitrate=5120
H264.Record.1280X960.FrameLockMaxFPS=30000
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H264.Record.1280X720.MinCBRTargetBitrate=1024
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H264.Record.1280X720.DefaultCBRTargetBitrate=5120
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H264.Record.1280X720.FrameLockMaxFPS=30000
H264.Record.1024X768.MaxFPS=30000
H264.Record.1024X768.DefaultFPS=30000
H264.Record.1024X768.MinCBRTargetBitrate=1024
H264.Record.1024X768.MaxCBRTargetBitrate=6144
H264.Record.1024X768.DefaultCBRTargetBitrate=5120
H264.Record.1024X768.MinVBRTargetBitrate=1536
H264.Record.1024X768.MaxVBRTargetBitrate=6144
H264.Record.1024X768.DefaultVBRTargetBitrate=5120
H264.Record.1024X768.FrameLockMaxFPS=30000
H264.Record.800X600.MaxFPS=30000
H264.Record.800X600.DefaultFPS=30000
H264.Record.800X600.MinCBRTargetBitrate=512
H264.Record.800X600.MaxCBRTargetBitrate=6144
H264.Record.800X600.DefaultCBRTargetBitrate=5120
H264.Record.800X600.MinVBRTargetBitrate=512
H264.Record.800X600.MaxVBRTargetBitrate=6144
H264.Record.800X600.DefaultVBRTargetBitrate=5120
H264.Record.800X600.FrameLockMaxFPS=30000
H264.Record.800X448.MaxFPS=30000
H264.Record.800X448.DefaultFPS=30000
H264.Record.800X448.MinCBRTargetBitrate=512
H264.Record.800X448.MaxCBRTargetBitrate=6144
H264.Record.800X448.DefaultCBRTargetBitrate=5120
H264.Record.800X448.MinVBRTargetBitrate=512
H264.Record.800X448.MaxVBRTargetBitrate=6144
H264.Record.800X448.DefaultVBRTargetBitrate=5120
H264.Record.800X448.FrameLockMaxFPS=30000
H264.Record.720X576.MaxFPS=30000
H264.Record.720X576.DefaultFPS=30000
H264.Record.720X576.MinCBRTargetBitrate=512
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H264.Record.720X576.DefaultCBRTargetBitrate=5120
H264.Record.720X576.MinVBRTargetBitrate=512
H264.Record.720X576.MaxVBRTargetBitrate=6144
H264.Record.720X576.DefaultVBRTargetBitrate=5120
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H264.Record.720X576.FrameLockMaxFPS=30000
H264.Record.720X480.MaxFPS=30000
H264.Record.720X480.DefaultFPS=30000
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H264.Record.720X480.DefaultCBRTargetBitrate=5120
H264.Record.720X480.MinVBRTargetBitrate=512
H264.Record.720X480.MaxVBRTargetBitrate=6144
H264.Record.720X480.DefaultVBRTargetBitrate=5120
H264.Record.720X480.FrameLockMaxFPS=30000
H264.Record.640X480.MaxFPS=30000
H264.Record.640X480.DefaultFPS=30000
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H264.Record.640X480.MinVBRTargetBitrate=512
H264.Record.640X480.MaxVBRTargetBitrate=6144
H264.Record.640X480.DefaultVBRTargetBitrate=5120
H264.Record.640X480.FrameLockMaxFPS=30000
H264.Record.640X360.MaxFPS=30000
H264.Record.640X360.DefaultFPS=30000
H264.Record.640X360.MinCBRTargetBitrate=512
H264.Record.640X360.MaxCBRTargetBitrate=6144
H264.Record.640X360.DefaultCBRTargetBitrate=5120
H264.Record.640X360.MinVBRTargetBitrate=512
H264.Record.640X360.MaxVBRTargetBitrate=6144
H264.Record.640X360.DefaultVBRTargetBitrate=5120
H264.Record.640X360.FrameLockMaxFPS=30000
H264.Record.320X240.MaxFPS=30000
H264.Record.320X240.DefaultFPS=30000
H264.Record.320X240.MinCBRTargetBitrate=256
H264.Record.320X240.MaxCBRTargetBitrate=6144
H264.Record.320X240.DefaultCBRTargetBitrate=5120
H264.Record.320X240.MinVBRTargetBitrate=256
H264.Record.320X240.MaxVBRTargetBitrate=6144
H264.Record.320X240.DefaultVBRTargetBitrate=5120
H264.Record.320X240.FrameLockMaxFPS=30000
H264.DigitalPTZ.3328X1872.Width=3328
H264.DigitalPTZ.3328X1872.Height=1872
H264.DigitalPTZ.3328X1872.MaxFPS=30000
H264.DigitalPTZ.3328X1872.DefaultFPS=30000
H264.DigitalPTZ.3328X1872.MaxCBRTargetBitrate=4000
H264.DigitalPTZ.3328X1872.MinCBRTargetBitrate=4000
H264.DigitalPTZ.3328X1872.DefaultCBRTargetBitrate=4000
H264.DigitalPTZ.3072X1728.Width=3072
H264.DigitalPTZ.3072X1728.Height=1728
H264.DigitalPTZ.3072X1728.MaxFPS=30000
H264.DigitalPTZ.3072X1728.DefaultFPS=30000
H264.DigitalPTZ.3072X1728.MaxCBRTargetBitrate=4000
H264.DigitalPTZ.3072X1728.MinCBRTargetBitrate=4000
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H264.DigitalPTZ.3072X1728.DefaultCBRTargetBitrate=4000
H264.DigitalPTZ.1920X1080.Width=1920
H264.DigitalPTZ.1920X1080.Height=1080
H264.DigitalPTZ.1920X1080.MaxFPS=30000
H264.DigitalPTZ.1920X1080.DefaultFPS=30000
H264.DigitalPTZ.1920X1080.MaxCBRTargetBitrate=4000
H264.DigitalPTZ.1920X1080.MinCBRTargetBitrate=4000
H264.DigitalPTZ.1920X1080.DefaultCBRTargetBitrate=4000
H264.DigitalPTZ.1280X720.Width=1280
H264.DigitalPTZ.1280X720.Height=720
H264.DigitalPTZ.1280X720.MaxFPS=30000
H264.DigitalPTZ.1280X720.DefaultFPS=30000
H264.DigitalPTZ.1280X720.MaxCBRTargetBitrate=4000
H264.DigitalPTZ.1280X720.MinCBRTargetBitrate=4000
H264.DigitalPTZ.1280X720.DefaultCBRTargetBitrate=4000

Channel.0.EncodingType=H265
H265.IsDigitalPTZSupported=True
H265.Compression.DefaultCompressionLevel=16
H265.Compression.MinCompressionLevel=0
H265.Compression.MaxCompressionLevel=50
H265.General.3328X1872.Width=3328
H265.General.3328X1872.Height=1872
H265.General.3328X1872.MaxFPS=30000
H265.General.3328X1872.DefaultFPS=30000
H265.General.3328X1872.MaxCBRTargetBitrate=20480
H265.General.3328X1872.MinCBRTargetBitrate=2560
H265.General.3328X1872.DefaultCBRTargetBitrate=6144
H265.General.3328X1872.MaxVBRTargetBitrate=30720
H265.General.3328X1872.MinVBRTargetBitrate=2048
H265.General.3328X1872.DefaultVBRTargetBitrate=6144
H265.General.3328X1872.IsTruncated=Normal
H265.General.3328X1872.FrameLockMaxFPS=30000
H265.General.3072X1728.Width=3072
H265.General.3072X1728.Height=1728
H265.General.3072X1728.MaxFPS=30000
H265.General.3072X1728.DefaultFPS=30000
H265.General.3072X1728.MaxCBRTargetBitrate=20480
H265.General.3072X1728.MinCBRTargetBitrate=2560
H265.General.3072X1728.DefaultCBRTargetBitrate=6144
H265.General.3072X1728.MaxVBRTargetBitrate=30720
H265.General.3072X1728.MinVBRTargetBitrate=2048
H265.General.3072X1728.DefaultVBRTargetBitrate=6144
H265.General.3072X1728.IsTruncated=Normal
H265.General.3072X1728.FrameLockMaxFPS=30000
H265.General.2592X1944.Width=2592
H265.General.2592X1944.Height=1944
H265.General.2592X1944.MaxFPS=30000
H265.General.2592X1944.DefaultFPS=30000
H265.General.2592X1944.MaxCBRTargetBitrate=20480
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H265.General.2592X1944.MinCBRTargetBitrate=2048
H265.General.2592X1944.DefaultCBRTargetBitrate=5120
H265.General.2592X1944.MaxVBRTargetBitrate=30720
H265.General.2592X1944.MinVBRTargetBitrate=1024
H265.General.2592X1944.DefaultVBRTargetBitrate=5120
H265.General.2592X1944.IsTruncated=Crop
H265.General.2592X1944.FrameLockMaxFPS=30000
H265.General.2688X1520.Width=2688
H265.General.2688X1520.Height=1520
H265.General.2688X1520.MaxFPS=30000
H265.General.2688X1520.DefaultFPS=30000
H265.General.2688X1520.MaxCBRTargetBitrate=20480
H265.General.2688X1520.MinCBRTargetBitrate=2048
H265.General.2688X1520.DefaultCBRTargetBitrate=5120
H265.General.2688X1520.MaxVBRTargetBitrate=30720
H265.General.2688X1520.MinVBRTargetBitrate=1024
H265.General.2688X1520.DefaultVBRTargetBitrate=5120
H265.General.2688X1520.IsTruncated=Crop
H265.General.2688X1520.FrameLockMaxFPS=30000
H265.General.1920X1080.Width=1920
H265.General.1920X1080.Height=1080
H265.General.1920X1080.MaxFPS=30000
H265.General.1920X1080.DefaultFPS=30000
H265.General.1920X1080.MaxCBRTargetBitrate=20480
H265.General.1920X1080.MinCBRTargetBitrate=1024
H265.General.1920X1080.DefaultCBRTargetBitrate=2048
H265.General.1920X1080.MaxVBRTargetBitrate=30720
H265.General.1920X1080.MinVBRTargetBitrate=1024
H265.General.1920X1080.DefaultVBRTargetBitrate=2048
H265.General.1920X1080.IsTruncated=Normal
H265.General.1920X1080.FrameLockMaxFPS=30000
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H265.General.1600X1200.Height=1200
H265.General.1600X1200.MaxFPS=30000
H265.General.1600X1200.DefaultFPS=30000
H265.General.1600X1200.MaxCBRTargetBitrate=20480
H265.General.1600X1200.MinCBRTargetBitrate=1024
H265.General.1600X1200.DefaultCBRTargetBitrate=2048
H265.General.1600X1200.MaxVBRTargetBitrate=30720
H265.General.1600X1200.MinVBRTargetBitrate=1024
H265.General.1600X1200.DefaultVBRTargetBitrate=2048
H265.General.1600X1200.IsTruncated=Crop
H265.General.1600X1200.FrameLockMaxFPS=30000
H265.General.1280X1024.Width=1280
H265.General.1280X1024.Height=1024
H265.General.1280X1024.MaxFPS=30000
H265.General.1280X1024.DefaultFPS=30000
H265.General.1280X1024.MaxCBRTargetBitrate=20480
H265.General.1280X1024.MinCBRTargetBitrate=1024
H265.General.1280X1024.DefaultCBRTargetBitrate=1536
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H265.General.1280X1024.MaxVBRTargetBitrate=30720
H265.General.1280X1024.MinVBRTargetBitrate=1024
H265.General.1280X1024.DefaultVBRTargetBitrate=1536
H265.General.1280X1024.IsTruncated=Crop
H265.General.1280X1024.FrameLockMaxFPS=30000
H265.General.1280X960.Width=1280
H265.General.1280X960.Height=960
H265.General.1280X960.MaxFPS=30000
H265.General.1280X960.DefaultFPS=30000
H265.General.1280X960.MaxCBRTargetBitrate=20480
H265.General.1280X960.MinCBRTargetBitrate=1024
H265.General.1280X960.DefaultCBRTargetBitrate=1536
H265.General.1280X960.MaxVBRTargetBitrate=30720
H265.General.1280X960.MinVBRTargetBitrate=1024
H265.General.1280X960.DefaultVBRTargetBitrate=1536
H265.General.1280X960.IsTruncated=Crop
H265.General.1280X960.FrameLockMaxFPS=30000
H265.General.1280X720.Width=1280
H265.General.1280X720.Height=720
H265.General.1280X720.MaxFPS=30000
H265.General.1280X720.DefaultFPS=30000
H265.General.1280X720.MaxCBRTargetBitrate=20480
H265.General.1280X720.MinCBRTargetBitrate=1024
H265.General.1280X720.DefaultCBRTargetBitrate=1536
H265.General.1280X720.MaxVBRTargetBitrate=30720
H265.General.1280X720.MinVBRTargetBitrate=1024
H265.General.1280X720.DefaultVBRTargetBitrate=1536
H265.General.1280X720.IsTruncated=Normal
H265.General.1280X720.FrameLockMaxFPS=30000
H265.General.1024X768.Width=1024
H265.General.1024X768.Height=768
H265.General.1024X768.MaxFPS=30000
H265.General.1024X768.DefaultFPS=30000
H265.General.1024X768.MaxCBRTargetBitrate=20480
H265.General.1024X768.MinCBRTargetBitrate=1024
H265.General.1024X768.DefaultCBRTargetBitrate=1536
H265.General.1024X768.MaxVBRTargetBitrate=30720
H265.General.1024X768.MinVBRTargetBitrate=1024
H265.General.1024X768.DefaultVBRTargetBitrate=1536
H265.General.1024X768.IsTruncated=Crop
H265.General.1024X768.FrameLockMaxFPS=30000
H265.General.800X600.Width=800
H265.General.800X600.Height=600
H265.General.800X600.MaxFPS=30000
H265.General.800X600.DefaultFPS=30000
H265.General.800X600.MaxCBRTargetBitrate=20480
H265.General.800X600.MinCBRTargetBitrate=512
H265.General.800X600.DefaultCBRTargetBitrate=1024
H265.General.800X600.MaxVBRTargetBitrate=30720
H265.General.800X600.MinVBRTargetBitrate=512
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H265.General.800X600.DefaultVBRTargetBitrate=1024
H265.General.800X600.IsTruncated=Crop
H265.General.800X600.FrameLockMaxFPS=30000
H265.General.800X448.Width=800
H265.General.800X448.Height=448
H265.General.800X448.MaxFPS=30000
H265.General.800X448.DefaultFPS=30000
H265.General.800X448.MaxCBRTargetBitrate=20480
H265.General.800X448.MinCBRTargetBitrate=512
H265.General.800X448.DefaultCBRTargetBitrate=1024
H265.General.800X448.MaxVBRTargetBitrate=30720
H265.General.800X448.MinVBRTargetBitrate=512
H265.General.800X448.DefaultVBRTargetBitrate=1024
H265.General.800X448.IsTruncated=Normal
H265.General.800X448.FrameLockMaxFPS=30000
H265.General.720X576.Width=720
H265.General.720X576.Height=576
H265.General.720X576.MaxFPS=30000
H265.General.720X576.DefaultFPS=30000
H265.General.720X576.MaxCBRTargetBitrate=20480
H265.General.720X576.MinCBRTargetBitrate=512
H265.General.720X576.DefaultCBRTargetBitrate=1024
H265.General.720X576.MaxVBRTargetBitrate=30720
H265.General.720X576.MinVBRTargetBitrate=512
H265.General.720X576.DefaultVBRTargetBitrate=1024
H265.General.720X576.IsTruncated=Crop
H265.General.720X576.FrameLockMaxFPS=30000
H265.General.720X480.Width=720
H265.General.720X480.Height=480
H265.General.720X480.MaxFPS=30000
H265.General.720X480.DefaultFPS=30000
H265.General.720X480.MaxCBRTargetBitrate=20480
H265.General.720X480.MinCBRTargetBitrate=512
H265.General.720X480.DefaultCBRTargetBitrate=1024
H265.General.720X480.MaxVBRTargetBitrate=30720
H265.General.720X480.MinVBRTargetBitrate=512
H265.General.720X480.DefaultVBRTargetBitrate=1024
H265.General.720X480.IsTruncated=Crop
H265.General.720X480.FrameLockMaxFPS=30000
H265.General.640X480.Width=640
H265.General.640X480.Height=480
H265.General.640X480.MaxFPS=30000
H265.General.640X480.DefaultFPS=30000
H265.General.640X480.MaxCBRTargetBitrate=20480
H265.General.640X480.MinCBRTargetBitrate=512
H265.General.640X480.DefaultCBRTargetBitrate=1024
H265.General.640X480.MaxVBRTargetBitrate=30720
H265.General.640X480.MinVBRTargetBitrate=512
H265.General.640X480.DefaultVBRTargetBitrate=1024
H265.General.640X480.IsTruncated=Crop
```

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H265.General.640X480.FrameLockMaxFPS=30000
H265.General.640X360.Width=640
H265.General.640X360.Height=360
H265.General.640X360.MaxFPS=30000
H265.General.640X360.DefaultFPS=30000
H265.General.640X360.MaxCBRTargetBitrate=20480
H265.General.640X360.MinCBRTargetBitrate=512
H265.General.640X360.DefaultCBRTargetBitrate=1024
H265.General.640X360.MaxVBRTargetBitrate=30720
H265.General.640X360.MinVBRTargetBitrate=512
H265.General.640X360.DefaultVBRTargetBitrate=1024
H265.General.640X360.IsTruncated=Normal
H265.General.640X360.FrameLockMaxFPS=30000
H265.General.320X240.Width=320
H265.General.320X240.Height=240
H265.General.320X240.MaxFPS=30000
H265.General.320X240.DefaultFPS=30000
H265.General.320X240.MaxCBRTargetBitrate=20480
H265.General.320X240.MinCBRTargetBitrate=256
H265.General.320X240.DefaultCBRTargetBitrate=512
H265.General.320X240.MaxVBRTargetBitrate=30720
H265.General.320X240.MinVBRTargetBitrate=256
H265.General.320X240.DefaultVBRTargetBitrate=512
H265.General.320X240.IsTruncated=Crop
H265.General.320X240.FrameLockMaxFPS=30000
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H265.Record.3328X1872.DefaultFPS=30000
H265.Record.3328X1872.MinCBRTargetBitrate=2560
H265.Record.3328X1872.MaxCBRTargetBitrate=6144
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H265.Record.3328X1872.MinVBRTargetBitrate=2048
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H265.Record.3072X1728.DefaultCBRTargetBitrate=5120
H265.Record.3072X1728.MinVBRTargetBitrate=2048
H265.Record.3072X1728.MaxVBRTargetBitrate=6144
H265.Record.3072X1728.DefaultVBRTargetBitrate=5120
H265.Record.3072X1728.FrameLockMaxFPS=30000
H265.Record.2592X1944.MaxFPS=30000
H265.Record.2592X1944.DefaultFPS=30000
H265.Record.2592X1944.MinCBRTargetBitrate=2048
H265.Record.2592X1944.MaxCBRTargetBitrate=6144
H265.Record.2592X1944.DefaultCBRTargetBitrate=5120
H265.Record.2592X1944.MinVBRTargetBitrate=1024
H265.Record.2592X1944.MaxVBRTargetBitrate=6144
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H265.Record.2592X1944.DefaultVBRTargetBitrate=5120
H265.Record.2592X1944.FrameLockMaxFPS=30000
H265.Record.2688X1520.MaxFPS=30000
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H265.Record.2688X1520.MinCBRTargetBitrate=2048
H265.Record.2688X1520.MaxCBRTargetBitrate=6144
H265.Record.2688X1520.DefaultCBRTargetBitrate=5120
H265.Record.2688X1520.MinVBRTargetBitrate=1024
H265.Record.2688X1520.MaxVBRTargetBitrate=6144
H265.Record.2688X1520.DefaultVBRTargetBitrate=5120
H265.Record.2688X1520.FrameLockMaxFPS=30000
H265.Record.1920X1080.MaxFPS=30000
H265.Record.1920X1080.DefaultFPS=30000
H265.Record.1920X1080.MinCBRTargetBitrate=1024
H265.Record.1920X1080.MaxCBRTargetBitrate=6144
H265.Record.1920X1080.DefaultCBRTargetBitrate=5120
H265.Record.1920X1080.MinVBRTargetBitrate=1024
H265.Record.1920X1080.MaxVBRTargetBitrate=6144
H265.Record.1920X1080.DefaultVBRTargetBitrate=5120
H265.Record.1920X1080.FrameLockMaxFPS=30000
H265.Record.1600X1200.MaxFPS=30000
H265.Record.1600X1200.DefaultFPS=30000
H265.Record.1600X1200.MinCBRTargetBitrate=1024
H265.Record.1600X1200.MaxCBRTargetBitrate=6144
H265.Record.1600X1200.DefaultCBRTargetBitrate=5120
H265.Record.1600X1200.MinVBRTargetBitrate=1024
H265.Record.1600X1200.MaxVBRTargetBitrate=6144
H265.Record.1600X1200.DefaultVBRTargetBitrate=5120
H265.Record.1600X1200.FrameLockMaxFPS=30000
H265.Record.1280X1024.MaxFPS=30000
H265.Record.1280X1024.DefaultFPS=30000
H265.Record.1280X1024.MinCBRTargetBitrate=1024
H265.Record.1280X1024.MaxCBRTargetBitrate=6144
H265.Record.1280X1024.DefaultCBRTargetBitrate=5120
H265.Record.1280X1024.MinVBRTargetBitrate=1024
H265.Record.1280X1024.MaxVBRTargetBitrate=6144
H265.Record.1280X1024.DefaultVBRTargetBitrate=5120
H265.Record.1280X1024.FrameLockMaxFPS=30000
H265.Record.1280X960.MaxFPS=30000
H265.Record.1280X960.DefaultFPS=30000
H265.Record.1280X960.MinCBRTargetBitrate=1024
H265.Record.1280X960.MaxCBRTargetBitrate=6144
H265.Record.1280X960.DefaultCBRTargetBitrate=5120
H265.Record.1280X960.MinVBRTargetBitrate=1024
H265.Record.1280X960.MaxVBRTargetBitrate=6144
H265.Record.1280X960.DefaultVBRTargetBitrate=5120
H265.Record.1280X960.FrameLockMaxFPS=30000
H265.Record.1280X720.MaxFPS=30000
H265.Record.1280X720.DefaultFPS=30000
H265.Record.1280X720.MinCBRTargetBitrate=1024
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H265.Record.1280X720.MaxCBRTargetBitrate=6144
H265.Record.1280X720.DefaultCBRTargetBitrate=5120
H265.Record.1280X720.MinVBRTargetBitrate=1024
H265.Record.1280X720.MaxVBRTargetBitrate=6144
H265.Record.1280X720.DefaultVBRTargetBitrate=5120
H265.Record.1280X720.FrameLockMaxFPS=30000
H265.Record.1024X768.MaxFPS=30000
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H265.Record.1024X768.DefaultCBRTargetBitrate=5120
H265.Record.1024X768.MinVBRTargetBitrate=1024
H265.Record.1024X768.MaxVBRTargetBitrate=6144
H265.Record.1024X768.DefaultVBRTargetBitrate=5120
H265.Record.1024X768.FrameLockMaxFPS=30000
H265.Record.800X600.MaxFPS=30000
H265.Record.800X600.DefaultFPS=30000
H265.Record.800X600.MinCBRTargetBitrate=512
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H265.Record.800X600.DefaultCBRTargetBitrate=5120
H265.Record.800X600.MinVBRTargetBitrate=512
H265.Record.800X600.MaxVBRTargetBitrate=6144
H265.Record.800X600.DefaultVBRTargetBitrate=5120
H265.Record.800X600.FrameLockMaxFPS=30000
H265.Record.800X448.MaxFPS=30000
H265.Record.800X448.DefaultFPS=30000
H265.Record.800X448.MinCBRTargetBitrate=512
H265.Record.800X448.MaxCBRTargetBitrate=6144
H265.Record.800X448.DefaultCBRTargetBitrate=5120
H265.Record.800X448.MinVBRTargetBitrate=512
H265.Record.800X448.MaxVBRTargetBitrate=6144
H265.Record.800X448.DefaultVBRTargetBitrate=5120
H265.Record.800X448.FrameLockMaxFPS=30000
H265.Record.720X576.MaxFPS=30000
H265.Record.720X576.DefaultFPS=30000
H265.Record.720X576.MinCBRTargetBitrate=512
H265.Record.720X576.MaxCBRTargetBitrate=6144
H265.Record.720X576.DefaultCBRTargetBitrate=5120
H265.Record.720X576.MinVBRTargetBitrate=512
H265.Record.720X576.MaxVBRTargetBitrate=6144
H265.Record.720X576.DefaultVBRTargetBitrate=5120
H265.Record.720X576.FrameLockMaxFPS=30000
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H265.Record.720X480.DefaultFPS=30000
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H265.Record.720X480.MaxCBRTargetBitrate=6144
H265.Record.720X480.DefaultCBRTargetBitrate=5120
H265.Record.720X480.MinVBRTargetBitrate=512
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H265.Record.720X480.DefaultVBRTargetBitrate=5120
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H265.Record.720X480.FrameLockMaxFPS=30000
H265.Record.640X480.MaxFPS=30000
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H265.Record.640X480.MaxVBRTargetBitrate=6144
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H265.Record.640X480.FrameLockMaxFPS=30000
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H265.Record.640X360.DefaultFPS=30000
H265.Record.640X360.MinCBRTargetBitrate=512
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H265.Record.640X360.MinVBRTargetBitrate=512
H265.Record.640X360.MaxVBRTargetBitrate=6144
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H265.Record.320X240.MaxFPS=30000
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H265.DigitalPTZ.3328X1872.MaxCBRTargetBitrate=4000
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H265.DigitalPTZ.3328X1872.DefaultCBRTargetBitrate=4000
H265.DigitalPTZ.3072X1728.Width=3072
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H265.DigitalPTZ.1920X1080.DefaultCBRTargetBitrate=4000
H265.DigitalPTZ.1280X720.Width=1280
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H265.DigitalPTZ.1280X720.Height=720
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H265.DigitalPTZ.1280X720.MaxCBRTargetBitrate=4000
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JSON RESPONSE

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Content-type: application/json
<Body>
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                    "MaxVBRTargetBitrate": 6144,
                    "DefaultVBRTargetBitrate": 5120,
                    "FrameLockMaxFPS": 30000
                },
                {
                    "Width": 1600,
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                    "MinVBRTargetBitrate": 1024,
                    "MaxVBRTargetBitrate": 6144,
                    "DefaultVBRTargetBitrate": 5120,
                    "FrameLockMaxFPS": 30000
                },
                {
                    "Width": 1280,
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                    "MaxFPS": 30000,
                    "DefaultFPS": 30000,
                    "MinCBRTargetBitrate": 1024,
                    "MaxCBRTargetBitrate": 6144,
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                    "MaxVBRTargetBitrate": 6144,
                    "DefaultVBRTargetBitrate": 5120,
                    "FrameLockMaxFPS": 30000
                },
                {
```

```
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                "MaxCBRTargetBitrate": 6144,
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                "MinVBRTargetBitrate": 1024,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 5120,
                "FrameLockMaxFPS": 30000
            },
            {
                "Width": 1280,
                "Height": 720,
                "MaxFPS": 30000,
                "DefaultFPS": 30000,
                "MinCBRTargetBitrate": 1024,
                "MaxCBRTargetBitrate": 6144,
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                "MinVBRTargetBitrate": 1024,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 5120,
                "FrameLockMaxFPS": 30000
            },
            {
                "Width": 1024,
                "Height": 768,
                "MaxFPS": 30000,
                "DefaultFPS": 30000,
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                "MaxCBRTargetBitrate": 6144,
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                "MinVBRTargetBitrate": 1024,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 5120,
                "FrameLockMaxFPS": 30000
            },
            {
                "Width": 800,
                "Height": 600,
                "MaxFPS": 30000,
                "DefaultFPS": 30000,
                "MinCBRTargetBitrate": 512,
                "MaxCBRTargetBitrate": 6144,
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                "MinVBRTargetBitrate": 512,
                "MaxVBRTargetBitrate": 6144,
                "DefaultVBRTargetBitrate": 5120,
                "FrameLockMaxFPS": 30000
```

```
                    },
                    {
                        "Width": 800,
                        "Height": 448,
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                        "DefaultFPS": 30000,
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                        "MaxCBRTargetBitrate": 6144,
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                        "MinVBRTargetBitrate": 512,
                        "MaxVBRTargetBitrate": 6144,
                        "DefaultVBRTargetBitrate": 5120,
                        "FrameLockMaxFPS": 30000
                    },
                    {
                        "Width": 720,
                        "Height": 576,
                        "MaxFPS": 30000,
                        "DefaultFPS": 30000,
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                        "MaxCBRTargetBitrate": 6144,
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                        "MinVBRTargetBitrate": 512,
                        "MaxVBRTargetBitrate": 6144,
                        "DefaultVBRTargetBitrate": 5120,
                        "FrameLockMaxFPS": 30000
                    },
                    {
                        "Width": 720,
                        "Height": 480,
                        "MaxFPS": 30000,
                        "DefaultFPS": 30000,
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                        "MaxCBRTargetBitrate": 6144,
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                        "MinVBRTargetBitrate": 512,
                        "MaxVBRTargetBitrate": 6144,
                        "DefaultVBRTargetBitrate": 5120,
                        "FrameLockMaxFPS": 30000
                    },
                    {
                        "Width": 640,
                        "Height": 480,
                        "MaxFPS": 30000,
                        "DefaultFPS": 30000,
                        "MinCBRTargetBitrate": 512,
                        "MaxCBRTargetBitrate": 6144,
                        "DefaultCBRTargetBitrate": 5120,
                        "MinVBRTargetBitrate": 512,
                        "MaxVBRTargetBitrate": 6144,
```

```
                    "DefaultVBRTargetBitrate": 5120,
                    "FrameLockMaxFPS": 30000
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                {
                    "Width": 640,
                    "Height": 360,
                    "MaxFPS": 30000,
                    "DefaultFPS": 30000,
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                    "MaxCBRTargetBitrate": 6144,
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                    "MinVBRTargetBitrate": 512,
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                {
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                    "MaxFPS": 30000,
                    "DefaultFPS": 30000,
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                    "MaxCBRTargetBitrate": 6144,
                    "DefaultCBRTargetBitrate": 5120,
                    "MinVBRTargetBitrate": 256,
                    "MaxVBRTargetBitrate": 6144,
                    "DefaultVBRTargetBitrate": 5120,
                    "FrameLockMaxFPS": 30000
                }
            ],
            "DigitalPTZ": [
                {
                    "Width": 3328,
                    "Height": 1872,
                    "MaxFPS": 30000,
                    "DefaultFPS": 30000,
                    "MaxCBRTargetBitrate": 4000,
                    "MinCBRTargetBitrate": 4000,
                    "DefaultCBRTargetBitrate": 4000
                },
                {
                    "Width": 3072,
                    "Height": 1728,
                    "MaxFPS": 30000,
                    "DefaultFPS": 30000,
                    "MaxCBRTargetBitrate": 4000,
                    "MinCBRTargetBitrate": 4000,
                    "DefaultCBRTargetBitrate": 4000
                },
                {
```

```
                                "Width": 1920,
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                                "DefaultFPS": 30000,
                                "MaxCBRTargetBitrate": 4000,
                                "MinCBRTargetBitrate": 4000,
                                "DefaultCBRTargetBitrate": 4000
                            },
                            {
                                "Width": 1280,
                                "Height": 720,
                                "MaxFPS": 30000,
                                "DefaultFPS": 30000,
                                "MaxCBRTargetBitrate": 4000,
                                "MinCBRTargetBitrate": 4000,
                                "DefaultCBRTargetBitrate": 4000
                            }
                        ]
                    }
                ]
            }
        ]
    }
]
}
```

The following response example is for NVR only.

REQUEST

```
http://<Device IP>/ stw-cgi/media.cgi?msubmenu=videocodecinfo&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
 Channel.1.Profile=1
Channel.1.ViewMode=Overview
Channel.1.EncodingType=MJPEG
MJPEG.IsDigitalPTZSupported=False
MJPEG.General.4000X3000.Width=4000
MJPEG.General.4000X3000.Height=3000
MJPEG.General.4000X3000.MaxFPS=2
MJPEG.General.4000X3000.MinUnknownTargetBitrate=5120
MJPEG.General.4000X3000.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.4000X3000.Width=4000
MJPEG.General.Overview.4000X3000.Height=3000
MJPEG.General.Overview.4000X3000.MaxFPS=2
MJPEG.General.Overview.4000X3000.MinUnknownTargetBitrate=5120
MJPEG.General.Overview.4000X3000.MaxUnknownTargetBitrate=6144
MJPEG.General.3840X2160.Width=3840
MJPEG.General.3840X2160.Height=2160
MJPEG.General.3840X2160.MaxFPS=2
```

```
MJPEG.General.3840X2160.MinUnknownTargetBitrate=4096
MJPEG.General.3840X2160.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.3840X2160.Width=3840
MJPEG.General.Overview.3840X2160.Height=2160
MJPEG.General.Overview.3840X2160.MaxFPS=2
MJPEG.General.Overview.3840X2160.MinUnknownTargetBitrate=4096
MJPEG.General.Overview.3840X2160.MaxUnknownTargetBitrate=6144
MJPEG.General.2592X1944.Width=2592
MJPEG.General.2592X1944.Height=1944
MJPEG.General.2592X1944.MaxFPS=2
MJPEG.General.2592X1944.MinUnknownTargetBitrate=2048
MJPEG.General.2592X1944.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.2592X1944.Width=2592
MJPEG.General.Overview.2592X1944.Height=1944
MJPEG.General.Overview.2592X1944.MaxFPS=2
MJPEG.General.Overview.2592X1944.MinUnknownTargetBitrate=2048
MJPEG.General.Overview.2592X1944.MaxUnknownTargetBitrate=6144
MJPEG.General.2592X1464.Width=2592
MJPEG.General.2592X1464.Height=1464
MJPEG.General.2592X1464.MaxFPS=2
MJPEG.General.2592X1464.MinUnknownTargetBitrate=2048
MJPEG.General.2592X1464.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.2592X1464.Width=2592
MJPEG.General.Overview.2592X1464.Height=1464
MJPEG.General.Overview.2592X1464.MaxFPS=2
MJPEG.General.Overview.2592X1464.MinUnknownTargetBitrate=2048
MJPEG.General.Overview.2592X1464.MaxUnknownTargetBitrate=6144
MJPEG.General.1920X1080.Width=1920
MJPEG.General.1920X1080.Height=1080
MJPEG.General.1920X1080.MaxFPS=5
MJPEG.General.1920X1080.MinUnknownTargetBitrate=1024
MJPEG.General.1920X1080.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1920X1080.Width=1920
MJPEG.General.Overview.1920X1080.Height=1080
MJPEG.General.Overview.1920X1080.MaxFPS=5
MJPEG.General.Overview.1920X1080.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1920X1080.MaxUnknownTargetBitrate=6144
MJPEG.General.1600X1200.Width=1600
MJPEG.General.1600X1200.Height=1200
MJPEG.General.1600X1200.MaxFPS=5
MJPEG.General.1600X1200.MinUnknownTargetBitrate=1024
MJPEG.General.1600X1200.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1600X1200.Width=1600
MJPEG.General.Overview.1600X1200.Height=1200
MJPEG.General.Overview.1600X1200.MaxFPS=5
MJPEG.General.Overview.1600X1200.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1600X1200.MaxUnknownTargetBitrate=6144
MJPEG.General.1280X1024.Width=1280
MJPEG.General.1280X1024.Height=1024
MJPEG.General.1280X1024.MaxFPS=5
```

```
MJPEG.General.1280X1024.MinUnknownTargetBitrate=1024
MJPEG.General.1280X1024.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1280X1024.Width=1280
MJPEG.General.Overview.1280X1024.Height=1024
MJPEG.General.Overview.1280X1024.MaxFPS=5
MJPEG.General.Overview.1280X1024.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1280X1024.MaxUnknownTargetBitrate=6144
MJPEG.General.1280X960.Width=1280
MJPEG.General.1280X960.Height=960
MJPEG.General.1280X960.MaxFPS=5
MJPEG.General.1280X960.MinUnknownTargetBitrate=1024
MJPEG.General.1280X960.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1280X960.Width=1280
MJPEG.General.Overview.1280X960.Height=960
MJPEG.General.Overview.1280X960.MaxFPS=5
MJPEG.General.Overview.1280X960.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1280X960.MaxUnknownTargetBitrate=6144
MJPEG.General.1280X720.Width=1280
MJPEG.General.1280X720.Height=720
MJPEG.General.1280X720.MaxFPS=5
MJPEG.General.1280X720.MinUnknownTargetBitrate=1024
MJPEG.General.1280X720.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1280X720.Width=1280
MJPEG.General.Overview.1280X720.Height=720
MJPEG.General.Overview.1280X720.MaxFPS=5
MJPEG.General.Overview.1280X720.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1280X720.MaxUnknownTargetBitrate=6144
MJPEG.General.1024X768.Width=1024
MJPEG.General.1024X768.Height=768
MJPEG.General.1024X768.MaxFPS=5
MJPEG.General.1024X768.MinUnknownTargetBitrate=1024
MJPEG.General.1024X768.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.1024X768.Width=1024
MJPEG.General.Overview.1024X768.Height=768
MJPEG.General.Overview.1024X768.MaxFPS=5
MJPEG.General.Overview.1024X768.MinUnknownTargetBitrate=1024
MJPEG.General.Overview.1024X768.MaxUnknownTargetBitrate=6144
MJPEG.General.800X600.Width=800
MJPEG.General.800X600.Height=600
MJPEG.General.800X600.MaxFPS=5
MJPEG.General.800X600.MinUnknownTargetBitrate=512
MJPEG.General.800X600.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.800X600.Width=800
MJPEG.General.Overview.800X600.Height=600
MJPEG.General.Overview.800X600.MaxFPS=5
MJPEG.General.Overview.800X600.MinUnknownTargetBitrate=512
MJPEG.General.Overview.800X600.MaxUnknownTargetBitrate=6144
MJPEG.General.800X448.Width=800
MJPEG.General.800X448.Height=448
MJPEG.General.800X448.MaxFPS=5
```

```
MJPEG.General.800X448.MinUnknownTargetBitrate=512
MJPEG.General.800X448.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.800X448.Width=800
MJPEG.General.Overview.800X448.Height=448
MJPEG.General.Overview.800X448.MaxFPS=5
MJPEG.General.Overview.800X448.MinUnknownTargetBitrate=512
MJPEG.General.Overview.800X448.MaxUnknownTargetBitrate=6144
MJPEG.General.720X576.Width=720
MJPEG.General.720X576.Height=576
MJPEG.General.720X576.MaxFPS=5
MJPEG.General.720X576.MinUnknownTargetBitrate=512
MJPEG.General.720X576.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.720X576.Width=720
MJPEG.General.Overview.720X576.Height=576
MJPEG.General.Overview.720X576.MaxFPS=5
MJPEG.General.Overview.720X576.MinUnknownTargetBitrate=512
MJPEG.General.Overview.720X576.MaxUnknownTargetBitrate=6144
MJPEG.General.720X480.Width=720
MJPEG.General.720X480.Height=480
MJPEG.General.720X480.MaxFPS=5
MJPEG.General.720X480.MinUnknownTargetBitrate=512
MJPEG.General.720X480.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.720X480.Width=720
MJPEG.General.Overview.720X480.Height=480
MJPEG.General.Overview.720X480.MaxFPS=5
MJPEG.General.Overview.720X480.MinUnknownTargetBitrate=512
MJPEG.General.Overview.720X480.MaxUnknownTargetBitrate=6144
MJPEG.General.640X480.Width=640
MJPEG.General.640X480.Height=480
MJPEG.General.640X480.MaxFPS=5
MJPEG.General.640X480.MinUnknownTargetBitrate=512
MJPEG.General.640X480.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.640X480.Width=640
MJPEG.General.Overview.640X480.Height=480
MJPEG.General.Overview.640X480.MaxFPS=5
MJPEG.General.Overview.640X480.MinUnknownTargetBitrate=512
MJPEG.General.Overview.640X480.MaxUnknownTargetBitrate=6144
MJPEG.General.640X360.Width=640
MJPEG.General.640X360.Height=360
MJPEG.General.640X360.MaxFPS=5
MJPEG.General.640X360.MinUnknownTargetBitrate=512
MJPEG.General.640X360.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.640X360.Width=640
MJPEG.General.Overview.640X360.Height=360
MJPEG.General.Overview.640X360.MaxFPS=5
MJPEG.General.Overview.640X360.MinUnknownTargetBitrate=512
MJPEG.General.Overview.640X360.MaxUnknownTargetBitrate=6144
MJPEG.General.320X240.Width=320
MJPEG.General.320X240.Height=240
MJPEG.General.320X240.MaxFPS=5
```

```
MJPEG.General.320X240.MinUnknownTargetBitrate=256
MJPEG.General.320X240.MaxUnknownTargetBitrate=6144
MJPEG.General.Overview.320X240.Width=320
MJPEG.General.Overview.320X240.Height=240
MJPEG.General.Overview.320X240.MaxFPS=5
MJPEG.General.Overview.320X240.MinUnknownTargetBitrate=256
MJPEG.General.Overview.320X240.MaxUnknownTargetBitrate=6144
...
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoCodecInfo":       [{
                    "Channel":      1,
                    "Profiles":     [{
                                    "Profile":      1,
                                    "ViewModes":    [{
                                                    "ViewMode":     "Overview",
                                                    "Codecs":       [{
                                                                    "EncodingType":
    "MJPEG",

    "IsDigitalPTZSupported":false,
                                                                    "General":      [{

    "Width":4000,

    "Height":       3000,

    "MaxFPS":       2,

    "MinUnknownTargetBitrate":      5120,

    "MaxUnknownTargetBitrate":      6144
                                                                                    }, {

    "Width":3840,

    "Height":       2160,

    "MaxFPS":       2,

    "MinUnknownTargetBitrate":      4096,

    "MaxUnknownTargetBitrate":      6144
                                                                                    }, {

    "Width":2592,

    "Height":       1944,

    "MaxFPS":       2,
```

```
"MinUnknownTargetBitrate":      2048,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":2592,
"Height":       1464,
"MaxFPS":       2,
"MinUnknownTargetBitrate":      2048,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":1920,
"Height":       1080,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":1600,
"Height":       1200,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":1280,
"Height":       1024,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":1280,
"Height":       960,
"MaxFPS":       5,
```

```
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":1280,
"Height":       720,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":1024,
"Height":       768,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      1024,
"MaxUnknownTargetBitrate":      6144
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"Width":800,
"Height":       600,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
                                                                    }, {
"Width":800,
"Height":       448,
"MaxFPS":       5,
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"MaxUnknownTargetBitrate":      6144
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"Width":720,
"Height":       576,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      512,
```

```
"MaxUnknownTargetBitrate":      6144
                                                                        }, {
"Width":720,
"Height":       480,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
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"Width":640,
"Height":       480,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
                                                                        }, {
"Width":640,
"Height":       360,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      6144
                                                                        }, {
"Width":320,
"Height":       240,
"MaxFPS":       5,
"MinUnknownTargetBitrate":      256,
"MaxUnknownTargetBitrate":      6144
                                                                        }]
                                                        }]
                                        }]
                        }, {
                                "Profile":      2,
                                "ViewModes":    [{
                                                "ViewMode":     "Overview",
                                                "Codecs":       [{
                                                                "EncodingType":
```

```
"H264",
"IsDigitalPTZSupported":true,
                                                                "General":      [{
"Width":4000,
"Height":       3000,
"MaxFPS":       20,
"MinCBRTargetBitrate":  4096,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  3072,
"MaxVBRTargetBitrate":  30720
                                                                        }, {
"Width":3840,
"Height":       2160,
"MaxFPS":       20,
"MinCBRTargetBitrate":  3584,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  2560,
"MaxVBRTargetBitrate":  30720
                                                                        }, {
"Width":2592,
"Height":       1944,
"MaxFPS":       20,
"MinCBRTargetBitrate":  2048,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1536,
"MaxVBRTargetBitrate":  30720
                                                                        }, {
"Width":2592,
"Height":       1464,
"MaxFPS":       20,
```

```
    "MinCBRTargetBitrate":   2048,
    "MaxCBRTargetBitrate":   20480,
    "MinVBRTargetBitrate":   1536,
    "MaxVBRTargetBitrate":   30720
                                                                    }, {
    "Width":1920,
    "Height":       1080,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":   1024,
    "MaxCBRTargetBitrate":   20480,
    "MinVBRTargetBitrate":   1536,
    "MaxVBRTargetBitrate":   30720
                                                                    }, {
    "Width":1600,
    "Height":       1200,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":   1024,
    "MaxCBRTargetBitrate":   20480,
    "MinVBRTargetBitrate":   1536,
    "MaxVBRTargetBitrate":   30720
                                                                    }, {
    "Width":1280,
    "Height":       1024,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":   1024,
    "MaxCBRTargetBitrate":   20480,
    "MinVBRTargetBitrate":   1536,
    "MaxVBRTargetBitrate":   30720
                                                                    }, {
    "Width":1280,
```

```
    "Height":       960,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  1024,
    "MaxCBRTargetBitrate":  20480,
    "MinVBRTargetBitrate":  1536,
    "MaxVBRTargetBitrate":  30720
                                                                    }, {
    "Width":1280,
    "Height":       720,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  1024,
    "MaxCBRTargetBitrate":  20480,
    "MinVBRTargetBitrate":  1536,
    "MaxVBRTargetBitrate":  30720
                                                                    }, {
    "Width":1024,
    "Height":       768,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  1024,
    "MaxCBRTargetBitrate":  20480,
    "MinVBRTargetBitrate":  1536,
    "MaxVBRTargetBitrate":  30720
                                                                    }, {
    "Width":800,
    "Height":       600,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  512,
    "MaxCBRTargetBitrate":  20480,
    "MinVBRTargetBitrate":  512,
    "MaxVBRTargetBitrate":  30720
```

```
                                                                    }, {
    "Width":800,
    "Height":       448,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  512,
    "MaxCBRTargetBitrate":  20480,
    "MinVBRTargetBitrate":  512,
    "MaxVBRTargetBitrate":  30720
                                                                    }, {
    "Width":720,
    "Height":       576,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  512,
    "MaxCBRTargetBitrate":  20480,
    "MinVBRTargetBitrate":  512,
    "MaxVBRTargetBitrate":  30720
                                                                    }, {
    "Width":720,
    "Height":       480,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  512,
    "MaxCBRTargetBitrate":  20480,
    "MinVBRTargetBitrate":  512,
    "MaxVBRTargetBitrate":  30720
                                                                    }, {
    "Width":640,
    "Height":       480,
    "MaxFPS":       20,
    "MinCBRTargetBitrate":  512,
    "MaxCBRTargetBitrate":  20480,
```

```
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":640,
"Height":       360,
"MaxFPS":       20,
"MinCBRTargetBitrate":  512,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":320,
"Height":       240,
"MaxFPS":       20,
"MinCBRTargetBitrate":  256,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  256,
"MaxVBRTargetBitrate":  30720
                                                                    }]
                                                            }]
                                    }]
                        }, {
                                "Profile":      3,
                                "ViewModes":    [{
                                                "ViewMode":     "Overview",
                                                "Codecs":       [{
                                                                "EncodingType":
"H265",
"IsDigitalPTZSupported":true,
                                                                "General":      [{
"Width":4000,
"Height":       3000,
"MaxFPS":       20,
"MinCBRTargetBitrate":  3072,
```

```
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  2048,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":3840,
"Height":       2160,
"MaxFPS":       20,
"MinCBRTargetBitrate":  2560,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  2048,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":2592,
"Height":       1944,
"MaxFPS":       20,
"MinCBRTargetBitrate":  2048,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":2592,
"Height":       1464,
"MaxFPS":       20,
"MinCBRTargetBitrate":  2048,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":1920,
"Height":       1080,
```

```
"MaxFPS":       20,
"MinCBRTargetBitrate":  1024,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":1600,
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"MaxFPS":       20,
"MinCBRTargetBitrate":  1024,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":1280,
"Height":       1024,
"MaxFPS":       20,
"MinCBRTargetBitrate":  1024,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":1280,
"Height":       960,
"MaxFPS":       20,
"MinCBRTargetBitrate":  1024,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
```

```
"Width":1280,
"Height":       720,
"MaxFPS":       20,
"MinCBRTargetBitrate":  1024,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":1024,
"Height":       768,
"MaxFPS":       20,
"MinCBRTargetBitrate":  1024,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  1024,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":800,
"Height":       600,
"MaxFPS":       20,
"MinCBRTargetBitrate":  512,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":800,
"Height":       448,
"MaxFPS":       20,
"MinCBRTargetBitrate":  512,
"MaxCBRTargetBitrate":  20480,
```

```
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":720,
"Height":       576,
"MaxFPS":       20,
"MinCBRTargetBitrate":  512,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":720,
"Height":       480,
"MaxFPS":       20,
"MinCBRTargetBitrate":  512,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":640,
"Height":       480,
"MaxFPS":       20,
"MinCBRTargetBitrate":  512,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":640,
"Height":       360,
"MaxFPS":       20,
```

```
"MinCBRTargetBitrate":  512,
"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  512,
"MaxVBRTargetBitrate":  30720
                                                                    }, {
"Width":320,
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"MaxFPS":       20,
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"MaxCBRTargetBitrate":  20480,
"MinVBRTargetBitrate":  256,
"MaxVBRTargetBitrate":  30720
                                                                    }]
                                                        }]
                                        }]
                        }, {
                                "Profile":      4,
                                "ViewModes":    [{
                                                "ViewMode":     "Overview",
                                                "Codecs":       [{
                                                                "EncodingType":
"MJPEG",
"IsDigitalPTZSupported":false,
                                                                "General":      [{
"Width":4000,
"Height":       3000,
"MaxFPS":       2,
"MinUnknownTargetBitrate":      5120,
"MaxUnknownTargetBitrate":      15360
                                                                    }, {
"Width":3840,
"Height":       2160,
"MaxFPS":       2,
"MinUnknownTargetBitrate":      4096,
```

```
    "MaxUnknownTargetBitrate":      15360
                                                                    }, {
    "Width":2592,
    "Height":       1944,
    "MaxFPS":       2,
    "MinUnknownTargetBitrate":      2048,
    "MaxUnknownTargetBitrate":      15360
                                                                    }, {
    "Width":2592,
    "Height":       1464,
    "MaxFPS":       2,
    "MinUnknownTargetBitrate":      2048,
    "MaxUnknownTargetBitrate":      15360
                                                                    }, {
    "Width":1920,
    "Height":       1080,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      30720
                                                                    }, {
    "Width":1600,
    "Height":       1200,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      30720
                                                                    }, {
    "Width":1280,
    "Height":       1024,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      30720
```

```
                                                                    }, {
    "Width":1280,
    "Height":       960,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      30720
                                                                    }, {
    "Width":1280,
    "Height":       720,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      30720
                                                                    }, {
    "Width":1024,
    "Height":       768,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      1024,
    "MaxUnknownTargetBitrate":      30720
                                                                    }, {
    "Width":800,
    "Height":       600,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      512,
    "MaxUnknownTargetBitrate":      30720
                                                                    }, {
    "Width":800,
    "Height":       448,
    "MaxFPS":       15,
    "MinUnknownTargetBitrate":      512,
    "MaxUnknownTargetBitrate":      30720
                                                                    }, {
```

```
"Width":720,
"Height":       576,
"MaxFPS":       15,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      30720
                                                        }, {
"Width":720,
"Height":       480,
"MaxFPS":       15,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      30720
                                                        }, {
"Width":640,
"Height":       480,
"MaxFPS":       15,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      30720
                                                        }, {
"Width":640,
"Height":       360,
"MaxFPS":       15,
"MinUnknownTargetBitrate":      512,
"MaxUnknownTargetBitrate":      30720
                                                        }, {
"Width":320,
"Height":       240,
"MaxFPS":       15,
"MinUnknownTargetBitrate":      256,
"MaxUnknownTargetBitrate":      30720
                                                        }]
                                                    }]
```

```
                                                                    }]
    }]
  }]
}
```

2.13.5 Examples

2.13.5.1 Getting all 'general' resolution information based on channel

The command without **Profile** returns all available channel-based general resolution information.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videocodecinfo&action=view&Channel=0
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.EncodingType=MJPEG
Channel.0.ViewMode=Overview
MJPEG.General.1920X1080.Width=1920
MJPEG.General.1920X1080.Height=1080
MJPEG.General.1920X1080.MaxFPS=2000
MJPEG.General.1920X1080.DefaultFPS=2000
MJPEG.General.1920X1080.MaxCBRTargetBitrate=10240
MJPEG.General.1920X1080.MinCBRTargetBitrate=2048
MJPEG.General.1920X1080.DefaultCBRTargetBitrate=2560
MJPEG.General.1920X1080.MaxVBRTargetBitrate=10240
MJPEG.General.1920X1080.MinVBRTargetBitrate=2048
MJPEG.General.1920X1080.DefaultVBRTargetBitrate=2560
MJPEG.General.1920X1080.IsTruncated=Normal
MJPEG.General.1280X720.Width=1280
MJPEG.General.1280X720.Height=720
MJPEG.General.1280X720.MaxFPS=2000
MJPEG.General.1280X720.DefaultFPS=2000
MJPEG.General.1280X720.MaxCBRTargetBitrate=10240
MJPEG.General.1280X720.MinCBRTargetBitrate=1024
MJPEG.General.1280X720.DefaultCBRTargetBitrate=2048
MJPEG.General.1280X720.MaxVBRTargetBitrate=10240
MJPEG.General.1280X720.MinVBRTargetBitrate=1024
MJPEG.General.1280X720.DefaultVBRTargetBitrate=2048
MJPEG.General.1280X720.IsTruncated=Normal
MJPEG.General.928X576.Width=928
MJPEG.General.928X576.Height=576
MJPEG.General.928X576.MaxFPS=2000
MJPEG.General.928X576.DefaultFPS=2000
MJPEG.General.928X576.MaxCBRTargetBitrate=10240
MJPEG.General.928X576.MinCBRTargetBitrate=512
MJPEG.General.928X576.DefaultCBRTargetBitrate=1024
MJPEG.General.928X576.MaxVBRTargetBitrate=10240
MJPEG.General.928X576.MinVBRTargetBitrate=512
```

```
MJPEG.General.928X576.DefaultVBRTargetBitrate=1024
MJPEG.General.928X576.IsTruncated=Normal
MJPEG.General.704X576.Width=704
MJPEG.General.704X576.Height=576
MJPEG.General.704X576.MaxFPS=2000
MJPEG.General.704X576.DefaultFPS=2000
MJPEG.General.704X576.MaxCBRTargetBitrate=10240
MJPEG.General.704X576.MinCBRTargetBitrate=512
MJPEG.General.704X576.DefaultCBRTargetBitrate=1024
MJPEG.General.704X576.MaxVBRTargetBitrate=10240
MJPEG.General.704X576.MinVBRTargetBitrate=512
MJPEG.General.704X576.DefaultVBRTargetBitrate=1024
MJPEG.General.704X576.IsTruncated=Normal
MJPEG.General.928X288.Width=928
MJPEG.General.928X288.Height=288
MJPEG.General.928X288.MaxFPS=2000
MJPEG.General.928X288.DefaultFPS=2000
MJPEG.General.928X288.MaxCBRTargetBitrate=10240
MJPEG.General.928X288.MinCBRTargetBitrate=512
MJPEG.General.928X288.DefaultCBRTargetBitrate=1024
MJPEG.General.928X288.MaxVBRTargetBitrate=10240
MJPEG.General.928X288.MinVBRTargetBitrate=512
MJPEG.General.928X288.DefaultVBRTargetBitrate=1024
MJPEG.General.928X288.IsTruncated=Normal
MJPEG.General.704X288.Width=704
MJPEG.General.704X288.Height=288
MJPEG.General.704X288.MaxFPS=2000
MJPEG.General.704X288.DefaultFPS=2000
MJPEG.General.704X288.MaxCBRTargetBitrate=10240
MJPEG.General.704X288.MinCBRTargetBitrate=512
MJPEG.General.704X288.DefaultCBRTargetBitrate=1024
MJPEG.General.704X288.MaxVBRTargetBitrate=10240
MJPEG.General.704X288.MinVBRTargetBitrate=512
MJPEG.General.704X288.DefaultVBRTargetBitrate=1024
MJPEG.General.704X288.IsTruncated=Normal
MJPEG.General.352X288.Width=352
MJPEG.General.352X288.Height=288
MJPEG.General.352X288.MaxFPS=2000
MJPEG.General.352X288.DefaultFPS=2000
MJPEG.General.352X288.MaxCBRTargetBitrate=10240
MJPEG.General.352X288.MinCBRTargetBitrate=256
MJPEG.General.352X288.DefaultCBRTargetBitrate=512
MJPEG.General.352X288.MaxVBRTargetBitrate=10240
MJPEG.General.352X288.MinVBRTargetBitrate=256
MJPEG.General.352X288.DefaultVBRTargetBitrate=512
MJPEG.General.352X288.IsTruncated=Normal
MJPEG.Email.1920X1080.MaxFPS=2000
MJPEG.Email.1920X1080.DefaultFPS=2000
MJPEG.Email.1280X720.MaxFPS=2000
MJPEG.Email.1280X720.DefaultFPS=2000
```

```
MJPEG.Email.928X576.MaxFPS=2000
MJPEG.Email.928X576.DefaultFPS=2000
MJPEG.Email.704X576.MaxFPS=2000
MJPEG.Email.704X576.DefaultFPS=2000
MJPEG.Email.928X288.MaxFPS=2000
MJPEG.Email.928X288.DefaultFPS=2000
MJPEG.Email.704X288.MaxFPS=2000
MJPEG.Email.704X288.DefaultFPS=2000
MJPEG.Email.352X288.MaxFPS=2000
MJPEG.Email.352X288.DefaultFPS=2000

Channel.0.EncodingType=H264
H264.General.1920X1080.Width=1920
H264.General.1920X1080.Height=1080
H264.General.1920X1080.MaxFPS=25000
H264.General.1920X1080.DefaultFPS=25000
H264.General.1920X1080.MaxCBRTargetBitrate=10240
H264.General.1920X1080.MinCBRTargetBitrate=1024
H264.General.1920X1080.DefaultCBRTargetBitrate=2560
H264.General.1920X1080.MaxVBRTargetBitrate=15360
H264.General.1920X1080.MinVBRTargetBitrate=1536
H264.General.1920X1080.DefaultVBRTargetBitrate=2560
H264.General.1920X1080.IsTruncated=Normal
H264.General.1280X720.Width=1280
H264.General.1280X720.Height=720
H264.General.1280X720.MaxFPS=25000
H264.General.1280X720.DefaultFPS=25000
H264.General.1280X720.MaxCBRTargetBitrate=8192
H264.General.1280X720.MinCBRTargetBitrate=1024
H264.General.1280X720.DefaultCBRTargetBitrate=2048
H264.General.1280X720.MaxVBRTargetBitrate=12288
H264.General.1280X720.MinVBRTargetBitrate=1536
H264.General.1280X720.DefaultVBRTargetBitrate=2048
H264.General.1280X720.IsTruncated=Normal
H264.General.928X576.Width=928
H264.General.928X576.Height=576
H264.General.928X576.MaxFPS=25000
H264.General.928X576.DefaultFPS=25000
H264.General.928X576.MaxCBRTargetBitrate=6144
H264.General.928X576.MinCBRTargetBitrate=512
H264.General.928X576.DefaultCBRTargetBitrate=1024
H264.General.928X576.MaxVBRTargetBitrate=9216
H264.General.928X576.MinVBRTargetBitrate=512
H264.General.928X576.DefaultVBRTargetBitrate=1024
H264.General.928X576.IsTruncated=Normal
H264.General.704X576.Width=704
H264.General.704X576.Height=576
H264.General.704X576.MaxFPS=25000
H264.General.704X576.DefaultFPS=25000
H264.General.704X576.MaxCBRTargetBitrate=6144
```

```
H264.General.704X576.MinCBRTargetBitrate=512
H264.General.704X576.DefaultCBRTargetBitrate=1024
H264.General.704X576.MaxVBRTargetBitrate=9216
H264.General.704X576.MinVBRTargetBitrate=512
H264.General.704X576.DefaultVBRTargetBitrate=1024
H264.General.704X576.IsTruncated=Normal
H264.General.928X288.Width=928
H264.General.928X288.Height=288
H264.General.928X288.MaxFPS=25000
H264.General.928X288.DefaultFPS=25000
H264.General.928X288.MaxCBRTargetBitrate=6144
H264.General.928X288.MinCBRTargetBitrate=512
H264.General.928X288.DefaultCBRTargetBitrate=1024
H264.General.928X288.MaxVBRTargetBitrate=9216
H264.General.928X288.MinVBRTargetBitrate=512
H264.General.928X288.DefaultVBRTargetBitrate=1024
H264.General.928X288.IsTruncated=Normal
H264.General.704X288.Width=704
H264.General.704X288.Height=288
H264.General.704X288.MaxFPS=25000
H264.General.704X288.DefaultFPS=25000
H264.General.704X288.MaxCBRTargetBitrate=6144
H264.General.704X288.MinCBRTargetBitrate=512
H264.General.704X288.DefaultCBRTargetBitrate=1024
H264.General.704X288.MaxVBRTargetBitrate=9216
H264.General.704X288.MinVBRTargetBitrate=512
H264.General.704X288.DefaultVBRTargetBitrate=1024
H264.General.704X288.IsTruncated=Normal
H264.General.352X288.Width=352
H264.General.352X288.Height=288
H264.General.352X288.MaxFPS=25000
H264.General.352X288.DefaultFPS=25000
H264.General.352X288.MaxCBRTargetBitrate=2048
H264.General.352X288.MinCBRTargetBitrate=256
H264.General.352X288.DefaultCBRTargetBitrate=512
H264.General.352X288.MaxVBRTargetBitrate=3072
H264.General.352X288.MinVBRTargetBitrate=256
H264.General.352X288.DefaultVBRTargetBitrate=512
H264.General.352X288.IsTruncated=Normal
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoCodecInfo": [
       {
           "Channel": 0,
           "ViewModes": [
               {
                   "ViewMode": "Overview",
```

```
                "Codecs": [
                    {
                        "EncodingType": "MJPEG",
                        "General": [
                            {
                                "Width": 1920,
                                "Height": 1080,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000,
                                "MaxCBRTargetBitrate": 10240,
                                "MinCBRTargetBitrate": 2048,
                                "DefaultCBRTargetBitrate": 2560,
                                "MaxVBRTargetBitrate": 10240,
                                "MinVBRTargetBitrate": 2048,
                                "DefaultVBRTargetBitrate": 2560,
                                "IsTruncated": "Normal"
                            },
                            {
                                "Width": 1280,
                                "Height": 720,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000,
                                "MaxCBRTargetBitrate": 10240,
                                "MinCBRTargetBitrate": 1024,
                                "DefaultCBRTargetBitrate": 2048,
                                "MaxVBRTargetBitrate": 10240,
                                "MinVBRTargetBitrate": 1024,
                                "DefaultVBRTargetBitrate": 2048,
                                "IsTruncated": "Normal"
                            },
                            {
                                "Width": 928,
                                "Height": 576,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000,
                                "MaxCBRTargetBitrate": 10240,
                                "MinCBRTargetBitrate": 512,
                                "DefaultCBRTargetBitrate": 1024,
                                "MaxVBRTargetBitrate": 10240,
                                "MinVBRTargetBitrate": 512,
                                "DefaultVBRTargetBitrate": 1024,
                                "IsTruncated": "Normal"
                            },
                            {
                                "Width": 704,
                                "Height": 576,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000,
                                "MaxCBRTargetBitrate": 10240,
                                "MinCBRTargetBitrate": 512,
```

```
                        "DefaultCBRTargetBitrate": 1024,
                        "MaxVBRTargetBitrate": 10240,
                        "MinVBRTargetBitrate": 512,
                        "DefaultVBRTargetBitrate": 1024,
                        "IsTruncated": "Normal"
                    },
                    {
                        "Width": 928,
                        "Height": 288,
                        "MaxFPS": 2000,
                        "DefaultFPS": 2000,
                        "MaxCBRTargetBitrate": 10240,
                        "MinCBRTargetBitrate": 512,
                        "DefaultCBRTargetBitrate": 1024,
                        "MaxVBRTargetBitrate": 10240,
                        "MinVBRTargetBitrate": 512,
                        "DefaultVBRTargetBitrate": 1024,
                        "IsTruncated": "Normal"
                    },
                    {
                        "Width": 704,
                        "Height": 288,
                        "MaxFPS": 2000,
                        "DefaultFPS": 2000,
                        "MaxCBRTargetBitrate": 10240,
                        "MinCBRTargetBitrate": 512,
                        "DefaultCBRTargetBitrate": 1024,
                        "MaxVBRTargetBitrate": 10240,
                        "MinVBRTargetBitrate": 512,
                        "DefaultVBRTargetBitrate": 1024,
                        "IsTruncated": "Normal"
                    },
                    {
                        "Width": 352,
                        "Height": 288,
                        "MaxFPS": 2000,
                        "DefaultFPS": 2000,
                        "MaxCBRTargetBitrate": 10240,
                        "MinCBRTargetBitrate": 256,
                        "DefaultCBRTargetBitrate": 512,
                        "MaxVBRTargetBitrate": 10240,
                        "MinVBRTargetBitrate": 256,
                        "DefaultVBRTargetBitrate": 512,
                        "IsTruncated": "Normal"
                    }
                ],
                "Email": [
                    {
                        "Width": 1920,
                        "Height": 1080,
```

```
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000
                            },
                            {
                                "Width": 1280,
                                "Height": 720,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000
                            },
                            {
                                "Width": 928,
                                "Height": 576,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000
                            },
                            {
                                "Width": 704,
                                "Height": 576,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000
                            },
                            {
                                "Width": 928,
                                "Height": 288,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000
                            },
                            {
                                "Width": 704,
                                "Height": 288,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000
                            },
                            {
                                "Width": 352,
                                "Height": 288,
                                "MaxFPS": 2000,
                                "DefaultFPS": 2000
                            }
                        ]
                    },
                    {
                        "EncodingType": "H264",
                        "General": [
                            {
                                "Width": 1920,
                                "Height": 1080,
                                "MaxFPS": 25000,
                                "DefaultFPS": 25000,
                                "MaxCBRTargetBitrate": 10240,
```

```
                    "MinCBRTargetBitrate": 1024,
                    "DefaultCBRTargetBitrate": 2560,
                    "MaxVBRTargetBitrate": 15360,
                    "MinVBRTargetBitrate": 1536,
                    "DefaultVBRTargetBitrate": 2560,
                    "IsTruncated": "Normal"
                },
                {
                    "Width": 1280,
                    "Height": 720,
                    "MaxFPS": 25000,
                    "DefaultFPS": 25000,
                    "MaxCBRTargetBitrate": 8192,
                    "MinCBRTargetBitrate": 1024,
                    "DefaultCBRTargetBitrate": 2048,
                    "MaxVBRTargetBitrate": 12288,
                    "MinVBRTargetBitrate": 1536,
                    "DefaultVBRTargetBitrate": 2048,
                    "IsTruncated": "Normal"
                },
                {
                    "Width": 928,
                    "Height": 576,
                    "MaxFPS": 25000,
                    "DefaultFPS": 25000,
                    "MaxCBRTargetBitrate": 6144,
                    "MinCBRTargetBitrate": 512,
                    "DefaultCBRTargetBitrate": 1024,
                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
                },
                {
                    "Width": 704,
                    "Height": 576,
                    "MaxFPS": 25000,
                    "DefaultFPS": 25000,
                    "MaxCBRTargetBitrate": 6144,
                    "MinCBRTargetBitrate": 512,
                    "DefaultCBRTargetBitrate": 1024,
                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
                },
                {
                    "Width": 928,
                    "Height": 288,
                    "MaxFPS": 25000,
```

```
                                "DefaultFPS": 25000,
                                "MaxCBRTargetBitrate": 6144,
                                "MinCBRTargetBitrate": 512,
                                "DefaultCBRTargetBitrate": 1024,
                                "MaxVBRTargetBitrate": 9216,
                                "MinVBRTargetBitrate": 512,
                                "DefaultVBRTargetBitrate": 1024,
                                "IsTruncated": "Normal"
                            },
                            {
                                "Width": 704,
                                "Height": 288,
                                "MaxFPS": 25000,
                                "DefaultFPS": 25000,
                                "MaxCBRTargetBitrate": 6144,
                                "MinCBRTargetBitrate": 512,
                                "DefaultCBRTargetBitrate": 1024,
                                "MaxVBRTargetBitrate": 9216,
                                "MinVBRTargetBitrate": 512,
                                "DefaultVBRTargetBitrate": 1024,
                                "IsTruncated": "Normal"
                            },
                            {
                                "Width": 352,
                                "Height": 288,
                                "MaxFPS": 25000,
                                "DefaultFPS": 25000,
                                "MaxCBRTargetBitrate": 2048,
                                "MinCBRTargetBitrate": 256,
                                "DefaultCBRTargetBitrate": 512,
                                "MaxVBRTargetBitrate": 3072,
                                "MinVBRTargetBitrate": 256,
                                "DefaultVBRTargetBitrate": 512,
                                "IsTruncated": "Normal"
                            }
                        ]
                    }
                ]
            }
        ]
    }
}
```


2.13.5.2 Getting all ‘profiles’ resolution information based on Channel

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videocodecinfo&action=view&Channel=0&AllProfiles=True
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
C hannel.0.EncodingType=MJPEG
Channel.0.ViewMode=Overview
Profile.1.MJPEG.General.1920X1080.Width=1920
Profile.1.MJPEG.General.1920X1080.Height=1080
Profile.1.MJPEG.General.1920X1080.MaxFPS=2000
Profile.1.MJPEG.General.1920X1080.DefaultFPS=2000
Profile.1.MJPEG.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.1920X1080.MinCBRTargetBitrate=2048
Profile.1.MJPEG.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.1.MJPEG.General.1920X1080.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.1920X1080.MinVBRTargetBitrate=2048
Profile.1.MJPEG.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.1.MJPEG.General.1920X1080.IsTruncated=Normal
Profile.1.MJPEG.General.1280X720.Width=1280
Profile.1.MJPEG.General.1280X720.Height=720
Profile.1.MJPEG.General.1280X720.MaxFPS=2000
Profile.1.MJPEG.General.1280X720.DefaultFPS=2000
Profile.1.MJPEG.General.1280X720.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.1280X720.MinCBRTargetBitrate=1024
Profile.1.MJPEG.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.1.MJPEG.General.1280X720.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.1280X720.MinVBRTargetBitrate=1024
Profile.1.MJPEG.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.1.MJPEG.General.1280X720.IsTruncated=Normal
Profile.1.MJPEG.General.928X576.Width=928
Profile.1.MJPEG.General.928X576.Height=576
Profile.1.MJPEG.General.928X576.MaxFPS=2000
Profile.1.MJPEG.General.928X576.DefaultFPS=2000
Profile.1.MJPEG.General.928X576.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.928X576.MinCBRTargetBitrate=512
Profile.1.MJPEG.General.928X576.DefaultCBRTargetBitrate=1024
Profile.1.MJPEG.General.928X576.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.928X576.MinVBRTargetBitrate=512
Profile.1.MJPEG.General.928X576.DefaultVBRTargetBitrate=1024
Profile.1.MJPEG.General.928X576.IsTruncated=Normal
Profile.1.MJPEG.General.704X576.Width=704
Profile.1.MJPEG.General.704X576.Height=576
Profile.1.MJPEG.General.704X576.MaxFPS=2000
Profile.1.MJPEG.General.704X576.DefaultFPS=2000
Profile.1.MJPEG.General.704X576.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.704X576.MinCBRTargetBitrate=512
Profile.1.MJPEG.General.704X576.DefaultCBRTargetBitrate=1024
Profile.1.MJPEG.General.704X576.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.704X576.MinVBRTargetBitrate=512
Profile.1.MJPEG.General.704X576.DefaultVBRTargetBitrate=1024
Profile.1.MJPEG.General.704X576.IsTruncated=Normal
Profile.1.MJPEG.General.928X288.Width=928
```

```
Profile.1.MJPEG.General.928X288.Height=288
Profile.1.MJPEG.General.928X288.MaxFPS=2000
Profile.1.MJPEG.General.928X288.DefaultFPS=2000
Profile.1.MJPEG.General.928X288.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.928X288.MinCBRTargetBitrate=512
Profile.1.MJPEG.General.928X288.DefaultCBRTargetBitrate=1024
Profile.1.MJPEG.General.928X288.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.928X288.MinVBRTargetBitrate=512
Profile.1.MJPEG.General.928X288.DefaultVBRTargetBitrate=1024
Profile.1.MJPEG.General.928X288.IsTruncated=Normal
Profile.1.MJPEG.General.704X288.Width=704
Profile.1.MJPEG.General.704X288.Height=288
Profile.1.MJPEG.General.704X288.MaxFPS=2000
Profile.1.MJPEG.General.704X288.DefaultFPS=2000
Profile.1.MJPEG.General.704X288.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.704X288.MinCBRTargetBitrate=512
Profile.1.MJPEG.General.704X288.DefaultCBRTargetBitrate=1024
Profile.1.MJPEG.General.704X288.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.704X288.MinVBRTargetBitrate=512
Profile.1.MJPEG.General.704X288.DefaultVBRTargetBitrate=1024
Profile.1.MJPEG.General.704X288.IsTruncated=Normal
Profile.1.MJPEG.General.352X288.Width=352
Profile.1.MJPEG.General.352X288.Height=288
Profile.1.MJPEG.General.352X288.MaxFPS=2000
Profile.1.MJPEG.General.352X288.DefaultFPS=2000
Profile.1.MJPEG.General.352X288.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.352X288.MinCBRTargetBitrate=256
Profile.1.MJPEG.General.352X288.DefaultCBRTargetBitrate=512
Profile.1.MJPEG.General.352X288.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.352X288.MinVBRTargetBitrate=256
Profile.1.MJPEG.General.352X288.DefaultVBRTargetBitrate=512
Profile.1.MJPEG.General.352X288.IsTruncated=Normal
Profile.1.MJPEG.Email.1920X1080.MaxFPS=2000
Profile.1.MJPEG.Email.1920X1080.DefaultFPS=2000
Profile.1.MJPEG.Email.1280X720.MaxFPS=2000
Profile.1.MJPEG.Email.1280X720.DefaultFPS=2000
Profile.1.MJPEG.Email.928X576.MaxFPS=2000
Profile.1.MJPEG.Email.928X576.DefaultFPS=2000
Profile.1.MJPEG.Email.704X576.MaxFPS=2000
Profile.1.MJPEG.Email.704X576.DefaultFPS=2000
Profile.1.MJPEG.Email.928X288.MaxFPS=2000
Profile.1.MJPEG.Email.928X288.DefaultFPS=2000
Profile.1.MJPEG.Email.704X288.MaxFPS=2000
Profile.1.MJPEG.Email.704X288.DefaultFPS=2000
Profile.1.MJPEG.Email.352X288.MaxFPS=2000
Profile.1.MJPEG.Email.352X288.DefaultFPS=2000

Channel.0.EncodingType=H264
Profile.2.H264.General.1920X1080.Width=1920
Profile.2.H264.General.1920X1080.Height=1080
```

```
Profile.2.H264.General.1920X1080.MaxFPS=25000
Profile.2.H264.General.1920X1080.DefaultFPS=25000
Profile.2.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.2.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.2.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.2.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.2.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.2.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.2.H264.General.1920X1080.IsTruncated=Normal
Profile.2.H264.General.1280X720.Width=1280
Profile.2.H264.General.1280X720.Height=720
Profile.2.H264.General.1280X720.MaxFPS=25000
Profile.2.H264.General.1280X720.DefaultFPS=25000
Profile.2.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.2.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.2.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.2.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.2.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.2.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.2.H264.General.1280X720.IsTruncated=Normal
Profile.2.H264.General.928X576.Width=928
Profile.2.H264.General.928X576.Height=576
Profile.2.H264.General.928X576.MaxFPS=25000
Profile.2.H264.General.928X576.DefaultFPS=25000
Profile.2.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.2.H264.General.928X576.MinCBRTargetBitrate=512
Profile.2.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.2.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.2.H264.General.928X576.MinVBRTargetBitrate=512
Profile.2.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.2.H264.General.928X576.IsTruncated=Normal
Profile.2.H264.General.704X576.Width=704
Profile.2.H264.General.704X576.Height=576
Profile.2.H264.General.704X576.MaxFPS=25000
Profile.2.H264.General.704X576.DefaultFPS=25000
Profile.2.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.2.H264.General.704X576.MinCBRTargetBitrate=512
Profile.2.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.2.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.2.H264.General.704X576.MinVBRTargetBitrate=512
Profile.2.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.2.H264.General.704X576.IsTruncated=Normal
Profile.2.H264.General.928X288.Width=928
Profile.2.H264.General.928X288.Height=288
Profile.2.H264.General.928X288.MaxFPS=25000
Profile.2.H264.General.928X288.DefaultFPS=25000
Profile.2.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.2.H264.General.928X288.MinCBRTargetBitrate=512
Profile.2.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.2.H264.General.928X288.MaxVBRTargetBitrate=9216
```

```
Profile.2.H264.General.928X288.MinVBRTargetBitrate=512
Profile.2.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.2.H264.General.928X288.IsTruncated=Normal
Profile.2.H264.General.704X288.Width=704
Profile.2.H264.General.704X288.Height=288
Profile.2.H264.General.704X288.MaxFPS=25000
Profile.2.H264.General.704X288.DefaultFPS=25000
Profile.2.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.2.H264.General.704X288.MinCBRTargetBitrate=512
Profile.2.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.2.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.2.H264.General.704X288.MinVBRTargetBitrate=512
Profile.2.H264.General.704X288.DefaultVBRTargetBitrate=1024
Profile.2.H264.General.704X288.IsTruncated=Normal
Profile.2.H264.General.352X288.Width=352
Profile.2.H264.General.352X288.Height=288
Profile.2.H264.General.352X288.MaxFPS=25000
Profile.2.H264.General.352X288.DefaultFPS=25000
Profile.2.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.2.H264.General.352X288.MinCBRTargetBitrate=256
Profile.2.H264.General.352X288.DefaultCBRTargetBitrate=512
Profile.2.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.2.H264.General.352X288.MinVBRTargetBitrate=256
Profile.2.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.2.H264.General.352X288.IsTruncated=Normal

Channel.0.EncodingType=H264
Profile.3.H264.General.1920X1080.Width=1920
Profile.3.H264.General.1920X1080.Height=1080
Profile.3.H264.General.1920X1080.MaxFPS=25000
Profile.3.H264.General.1920X1080.DefaultFPS=25000
Profile.3.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.3.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.3.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.3.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.3.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.3.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.3.H264.General.1920X1080.IsTruncated=Normal
Profile.3.H264.General.1280X720.Width=1280
Profile.3.H264.General.1280X720.Height=720
Profile.3.H264.General.1280X720.MaxFPS=25000
Profile.3.H264.General.1280X720.DefaultFPS=25000
Profile.3.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.3.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.3.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.3.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.3.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.3.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.3.H264.General.1280X720.IsTruncated=Normal
Profile.3.H264.General.928X576.Width=928
```

```
Profile.3.H264.General.928X576.Height=576
Profile.3.H264.General.928X576.MaxFPS=25000
Profile.3.H264.General.928X576.DefaultFPS=25000
Profile.3.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.3.H264.General.928X576.MinCBRTargetBitrate=512
Profile.3.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.3.H264.General.928X576.MinVBRTargetBitrate=512
Profile.3.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.928X576.IsTruncated=Normal
Profile.3.H264.General.704X576.Width=704
Profile.3.H264.General.704X576.Height=576
Profile.3.H264.General.704X576.MaxFPS=25000
Profile.3.H264.General.704X576.DefaultFPS=25000
Profile.3.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.3.H264.General.704X576.MinCBRTargetBitrate=512
Profile.3.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.3.H264.General.704X576.MinVBRTargetBitrate=512
Profile.3.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.704X576.IsTruncated=Normal
Profile.3.H264.General.928X288.Width=928
Profile.3.H264.General.928X288.Height=288
Profile.3.H264.General.928X288.MaxFPS=25000
Profile.3.H264.General.928X288.DefaultFPS=25000
Profile.3.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.3.H264.General.928X288.MinCBRTargetBitrate=512
Profile.3.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.3.H264.General.928X288.MinVBRTargetBitrate=512
Profile.3.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.928X288.IsTruncated=Normal
Profile.3.H264.General.704X288.Width=704
Profile.3.H264.General.704X288.Height=288
Profile.3.H264.General.704X288.MaxFPS=25000
Profile.3.H264.General.704X288.DefaultFPS=25000
Profile.3.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.3.H264.General.704X288.MinCBRTargetBitrate=512
Profile.3.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.3.H264.General.704X288.MinVBRTargetBitrate=512
Profile.3.H264.General.704X288.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.704X288.IsTruncated=Normal
Profile.3.H264.General.352X288.Width=352
Profile.3.H264.General.352X288.Height=288
Profile.3.H264.General.352X288.MaxFPS=25000
Profile.3.H264.General.352X288.DefaultFPS=25000
Profile.3.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.3.H264.General.352X288.MinCBRTargetBitrate=256
Profile.3.H264.General.352X288.DefaultCBRTargetBitrate=512
```

```
Profile.3.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.3.H264.General.352X288.MinVBRTargetBitrate=256
Profile.3.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.3.H264.General.352X288.IsTruncated=Normal

Channel.0.EncodingType=H264
Profile.4.H264.General.1920X1080.Width=1920
Profile.4.H264.General.1920X1080.Height=1080
Profile.4.H264.General.1920X1080.MaxFPS=25000
Profile.4.H264.General.1920X1080.DefaultFPS=25000
Profile.4.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.4.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.4.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.4.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.4.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.4.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.4.H264.General.1920X1080.IsTruncated=Normal
Profile.4.H264.General.1280X720.Width=1280
Profile.4.H264.General.1280X720.Height=720
Profile.4.H264.General.1280X720.MaxFPS=25000
Profile.4.H264.General.1280X720.DefaultFPS=25000
Profile.4.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.4.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.4.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.4.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.4.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.4.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.4.H264.General.1280X720.IsTruncated=Normal
Profile.4.H264.General.928X576.Width=928
Profile.4.H264.General.928X576.Height=576
Profile.4.H264.General.928X576.MaxFPS=25000
Profile.4.H264.General.928X576.DefaultFPS=25000
Profile.4.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.4.H264.General.928X576.MinCBRTargetBitrate=512
Profile.4.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.4.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.4.H264.General.928X576.MinVBRTargetBitrate=512
Profile.4.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.4.H264.General.928X576.IsTruncated=Normal
Profile.4.H264.General.704X576.Width=704
Profile.4.H264.General.704X576.Height=576
Profile.4.H264.General.704X576.MaxFPS=25000
Profile.4.H264.General.704X576.DefaultFPS=25000
Profile.4.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.4.H264.General.704X576.MinCBRTargetBitrate=512
Profile.4.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.4.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.4.H264.General.704X576.MinVBRTargetBitrate=512
Profile.4.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.4.H264.General.704X576.IsTruncated=Normal
```

```
Profile.4.H264.General.928X288.Width=928
Profile.4.H264.General.928X288.Height=288
Profile.4.H264.General.928X288.MaxFPS=25000
Profile.4.H264.General.928X288.DefaultFPS=25000
Profile.4.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.4.H264.General.928X288.MinCBRTargetBitrate=512
Profile.4.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.4.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.4.H264.General.928X288.MinVBRTargetBitrate=512
Profile.4.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.4.H264.General.928X288.IsTruncated=Normal
Profile.4.H264.General.704X288.Width=704
Profile.4.H264.General.704X288.Height=288
Profile.4.H264.General.704X288.MaxFPS=25000
Profile.4.H264.General.704X288.DefaultFPS=25000
Profile.4.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.4.H264.General.704X288.MinCBRTargetBitrate=512
Profile.4.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.4.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.4.H264.General.704X288.MinVBRTargetBitrate=512
Profile.4.H264.General.704X288.DefaultVBRTargetBitrate=1024
Profile.4.H264.General.704X288.IsTruncated=Normal
Profile.4.H264.General.352X288.Width=352
Profile.4.H264.General.352X288.Height=288
Profile.4.H264.General.352X288.MaxFPS=25000
Profile.4.H264.General.352X288.DefaultFPS=25000
Profile.4.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.4.H264.General.352X288.MinCBRTargetBitrate=256
Profile.4.H264.General.352X288.DefaultCBRTargetBitrate=512
Profile.4.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.4.H264.General.352X288.MinVBRTargetBitrate=256
Profile.4.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.4.H264.General.352X288.IsTruncated=Normal

Channel.0.EncodingType=H264
Profile.5.H264.General.1920X1080.Width=1920
Profile.5.H264.General.1920X1080.Height=1080
Profile.5.H264.General.1920X1080.MaxFPS=25000
Profile.5.H264.General.1920X1080.DefaultFPS=25000
Profile.5.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.5.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.5.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.5.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.5.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.5.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.5.H264.General.1920X1080.IsTruncated=Normal
Profile.5.H264.General.1280X720.Width=1280
Profile.5.H264.General.1280X720.Height=720
Profile.5.H264.General.1280X720.MaxFPS=25000
Profile.5.H264.General.1280X720.DefaultFPS=25000
```

```
Profile.5.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.5.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.5.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.5.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.5.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.5.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.5.H264.General.1280X720.IsTruncated=Normal
Profile.5.H264.General.928X576.Width=928
Profile.5.H264.General.928X576.Height=576
Profile.5.H264.General.928X576.MaxFPS=25000
Profile.5.H264.General.928X576.DefaultFPS=25000
Profile.5.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.5.H264.General.928X576.MinCBRTargetBitrate=512
Profile.5.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.5.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.5.H264.General.928X576.MinVBRTargetBitrate=512
Profile.5.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.5.H264.General.928X576.IsTruncated=Normal
Profile.5.H264.General.704X576.Width=704
Profile.5.H264.General.704X576.Height=576
Profile.5.H264.General.704X576.MaxFPS=25000
Profile.5.H264.General.704X576.DefaultFPS=25000
Profile.5.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.5.H264.General.704X576.MinCBRTargetBitrate=512
Profile.5.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.5.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.5.H264.General.704X576.MinVBRTargetBitrate=512
Profile.5.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.5.H264.General.704X576.IsTruncated=Normal
Profile.5.H264.General.928X288.Width=928
Profile.5.H264.General.928X288.Height=288
Profile.5.H264.General.928X288.MaxFPS=25000
Profile.5.H264.General.928X288.DefaultFPS=25000
Profile.5.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.5.H264.General.928X288.MinCBRTargetBitrate=512
Profile.5.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.5.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.5.H264.General.928X288.MinVBRTargetBitrate=512
Profile.5.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.5.H264.General.928X288.IsTruncated=Normal
Profile.5.H264.General.704X288.Width=704
Profile.5.H264.General.704X288.Height=288
Profile.5.H264.General.704X288.MaxFPS=25000
Profile.5.H264.General.704X288.DefaultFPS=25000
Profile.5.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.5.H264.General.704X288.MinCBRTargetBitrate=512
Profile.5.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.5.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.5.H264.General.704X288.MinVBRTargetBitrate=512
Profile.5.H264.General.704X288.DefaultVBRTargetBitrate=1024
```

```
Profile.5.H264.General.704X288.IsTruncated=Normal
Profile.5.H264.General.352X288.Width=352
Profile.5.H264.General.352X288.Height=288
Profile.5.H264.General.352X288.MaxFPS=25000
Profile.5.H264.General.352X288.DefaultFPS=25000
Profile.5.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.5.H264.General.352X288.MinCBRTargetBitrate=256
Profile.5.H264.General.352X288.DefaultCBRTargetBitrate=512
Profile.5.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.5.H264.General.352X288.MinVBRTargetBitrate=256
Profile.5.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.5.H264.General.352X288.IsTruncated=Normal

Channel.0.EncodingType=H264
Profile.6.H264.General.1920X1080.Width=1920
Profile.6.H264.General.1920X1080.Height=1080
Profile.6.H264.General.1920X1080.MaxFPS=25000
Profile.6.H264.General.1920X1080.DefaultFPS=25000
Profile.6.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.6.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.6.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.6.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.6.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.6.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.6.H264.General.1920X1080.IsTruncated=Normal
Profile.6.H264.General.1280X720.Width=1280
Profile.6.H264.General.1280X720.Height=720
Profile.6.H264.General.1280X720.MaxFPS=25000
Profile.6.H264.General.1280X720.DefaultFPS=25000
Profile.6.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.6.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.6.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.6.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.6.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.6.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.6.H264.General.1280X720.IsTruncated=Normal
Profile.6.H264.General.928X576.Width=928
Profile.6.H264.General.928X576.Height=576
Profile.6.H264.General.928X576.MaxFPS=25000
Profile.6.H264.General.928X576.DefaultFPS=25000
Profile.6.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.6.H264.General.928X576.MinCBRTargetBitrate=512
Profile.6.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.6.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.6.H264.General.928X576.MinVBRTargetBitrate=512
Profile.6.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.6.H264.General.928X576.IsTruncated=Normal
Profile.6.H264.General.704X576.Width=704
Profile.6.H264.General.704X576.Height=576
Profile.6.H264.General.704X576.MaxFPS=25000
```

```
Profile.6.H264.General.704X576.DefaultFPS=25000
Profile.6.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.6.H264.General.704X576.MinCBRTargetBitrate=512
Profile.6.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.6.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.6.H264.General.704X576.MinVBRTargetBitrate=512
Profile.6.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.6.H264.General.704X576.IsTruncated=Normal
Profile.6.H264.General.928X288.Width=928
Profile.6.H264.General.928X288.Height=288
Profile.6.H264.General.928X288.MaxFPS=25000
Profile.6.H264.General.928X288.DefaultFPS=25000
Profile.6.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.6.H264.General.928X288.MinCBRTargetBitrate=512
Profile.6.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.6.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.6.H264.General.928X288.MinVBRTargetBitrate=512
Profile.6.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.6.H264.General.928X288.IsTruncated=Normal
Profile.6.H264.General.704X288.Width=704
Profile.6.H264.General.704X288.Height=288
Profile.6.H264.General.704X288.MaxFPS=25000
Profile.6.H264.General.704X288.DefaultFPS=25000
Profile.6.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.6.H264.General.704X288.MinCBRTargetBitrate=512
Profile.6.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.6.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.6.H264.General.704X288.MinVBRTargetBitrate=512
Profile.6.H264.General.704X288.DefaultVBRTargetBitrate=1024
Profile.6.H264.General.704X288.IsTruncated=Normal
Profile.6.H264.General.352X288.Width=352
Profile.6.H264.General.352X288.Height=288
Profile.6.H264.General.352X288.MaxFPS=25000
Profile.6.H264.General.352X288.DefaultFPS=25000
Profile.6.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.6.H264.General.352X288.MinCBRTargetBitrate=256
Profile.6.H264.General.352X288.DefaultCBRTargetBitrate=512
Profile.6.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.6.H264.General.352X288.MinVBRTargetBitrate=256
Profile.6.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.6.H264.General.352X288.IsTruncated=Normal

Channel.0.EncodingType=H264
Profile.7.H264.General.1920X1080.Width=1920
Profile.7.H264.General.1920X1080.Height=1080
Profile.7.H264.General.1920X1080.MaxFPS=25000
Profile.7.H264.General.1920X1080.DefaultFPS=25000
Profile.7.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.7.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.7.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
```

```
Profile.7.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.7.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.7.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.7.H264.General.1920X1080.IsTruncated=Normal
Profile.7.H264.General.1280X720.Width=1280
Profile.7.H264.General.1280X720.Height=720
Profile.7.H264.General.1280X720.MaxFPS=25000
Profile.7.H264.General.1280X720.DefaultFPS=25000
Profile.7.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.7.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.7.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.7.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.7.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.7.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.7.H264.General.1280X720.IsTruncated=Normal
Profile.7.H264.General.928X576.Width=928
Profile.7.H264.General.928X576.Height=576
Profile.7.H264.General.928X576.MaxFPS=25000
Profile.7.H264.General.928X576.DefaultFPS=25000
Profile.7.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.7.H264.General.928X576.MinCBRTargetBitrate=512
Profile.7.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.7.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.7.H264.General.928X576.MinVBRTargetBitrate=512
Profile.7.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.7.H264.General.928X576.IsTruncated=Normal
Profile.7.H264.General.704X576.Width=704
Profile.7.H264.General.704X576.Height=576
Profile.7.H264.General.704X576.MaxFPS=25000
Profile.7.H264.General.704X576.DefaultFPS=25000
Profile.7.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.7.H264.General.704X576.MinCBRTargetBitrate=512
Profile.7.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.7.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.7.H264.General.704X576.MinVBRTargetBitrate=512
Profile.7.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.7.H264.General.704X576.IsTruncated=Normal
Profile.7.H264.General.928X288.Width=928
Profile.7.H264.General.928X288.Height=288
Profile.7.H264.General.928X288.MaxFPS=25000
Profile.7.H264.General.928X288.DefaultFPS=25000
Profile.7.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.7.H264.General.928X288.MinCBRTargetBitrate=512
Profile.7.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.7.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.7.H264.General.928X288.MinVBRTargetBitrate=512
Profile.7.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.7.H264.General.928X288.IsTruncated=Normal
Profile.7.H264.General.704X288.Width=704
Profile.7.H264.General.704X288.Height=288
```

```
Profile.7.H264.General.704X288.MaxFPS=25000
Profile.7.H264.General.704X288.DefaultFPS=25000
Profile.7.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.7.H264.General.704X288.MinCBRTargetBitrate=512
Profile.7.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.7.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.7.H264.General.704X288.MinVBRTargetBitrate=512
Profile.7.H264.General.704X288.DefaultVBRTargetBitrate=1024
Profile.7.H264.General.704X288.IsTruncated=Normal
Profile.7.H264.General.352X288.Width=352
Profile.7.H264.General.352X288.Height=288
Profile.7.H264.General.352X288.MaxFPS=25000
Profile.7.H264.General.352X288.DefaultFPS=25000
Profile.7.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.7.H264.General.352X288.MinCBRTargetBitrate=256
Profile.7.H264.General.352X288.DefaultCBRTargetBitrate=512
Profile.7.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.7.H264.General.352X288.MinVBRTargetBitrate=256
Profile.7.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.7.H264.General.352X288.IsTruncated=Normal

Channel.0.EncodingType=H264
Profile.8.H264.General.1920X1080.Width=1920
Profile.8.H264.General.1920X1080.Height=1080
Profile.8.H264.General.1920X1080.MaxFPS=25000
Profile.8.H264.General.1920X1080.DefaultFPS=25000
Profile.8.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.8.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.8.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.8.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.8.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.8.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.8.H264.General.1920X1080.IsTruncated=Normal
Profile.8.H264.General.1280X720.Width=1280
Profile.8.H264.General.1280X720.Height=720
Profile.8.H264.General.1280X720.MaxFPS=25000
Profile.8.H264.General.1280X720.DefaultFPS=25000
Profile.8.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.8.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.8.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.8.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.8.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.8.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.8.H264.General.1280X720.IsTruncated=Normal
Profile.8.H264.General.928X576.Width=928
Profile.8.H264.General.928X576.Height=576
Profile.8.H264.General.928X576.MaxFPS=25000
Profile.8.H264.General.928X576.DefaultFPS=25000
Profile.8.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.8.H264.General.928X576.MinCBRTargetBitrate=512
```

```
Profile.8.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.8.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.8.H264.General.928X576.MinVBRTargetBitrate=512
Profile.8.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.8.H264.General.928X576.IsTruncated=Normal
Profile.8.H264.General.704X576.Width=704
Profile.8.H264.General.704X576.Height=576
Profile.8.H264.General.704X576.MaxFPS=25000
Profile.8.H264.General.704X576.DefaultFPS=25000
Profile.8.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.8.H264.General.704X576.MinCBRTargetBitrate=512
Profile.8.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.8.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.8.H264.General.704X576.MinVBRTargetBitrate=512
Profile.8.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.8.H264.General.704X576.IsTruncated=Normal
Profile.8.H264.General.928X288.Width=928
Profile.8.H264.General.928X288.Height=288
Profile.8.H264.General.928X288.MaxFPS=25000
Profile.8.H264.General.928X288.DefaultFPS=25000
Profile.8.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.8.H264.General.928X288.MinCBRTargetBitrate=512
Profile.8.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.8.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.8.H264.General.928X288.MinVBRTargetBitrate=512
Profile.8.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.8.H264.General.928X288.IsTruncated=Normal
Profile.8.H264.General.704X288.Width=704
Profile.8.H264.General.704X288.Height=288
Profile.8.H264.General.704X288.MaxFPS=25000
Profile.8.H264.General.704X288.DefaultFPS=25000
Profile.8.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.8.H264.General.704X288.MinCBRTargetBitrate=512
Profile.8.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.8.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.8.H264.General.704X288.MinVBRTargetBitrate=512
Profile.8.H264.General.704X288.DefaultVBRTargetBitrate=1024
Profile.8.H264.General.704X288.IsTruncated=Normal
Profile.8.H264.General.352X288.Width=352
Profile.8.H264.General.352X288.Height=288
Profile.8.H264.General.352X288.MaxFPS=25000
Profile.8.H264.General.352X288.DefaultFPS=25000
Profile.8.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.8.H264.General.352X288.MinCBRTargetBitrate=256
Profile.8.H264.General.352X288.DefaultCBRTargetBitrate=512
Profile.8.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.8.H264.General.352X288.MinVBRTargetBitrate=256
Profile.8.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.8.H264.General.352X288.IsTruncated=Normal
```

```
Channel.0.EncodingType=H264
Profile.9.H264.General.1920X1080.Width=1920
Profile.9.H264.General.1920X1080.Height=1080
Profile.9.H264.General.1920X1080.MaxFPS=25000
Profile.9.H264.General.1920X1080.DefaultFPS=25000
Profile.9.H264.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.9.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.9.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.9.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.9.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.9.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.9.H264.General.1920X1080.IsTruncated=Normal
Profile.9.H264.General.1280X720.Width=1280
Profile.9.H264.General.1280X720.Height=720
Profile.9.H264.General.1280X720.MaxFPS=25000
Profile.9.H264.General.1280X720.DefaultFPS=25000
Profile.9.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.9.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.9.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.9.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.9.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.9.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.9.H264.General.1280X720.IsTruncated=Normal
Profile.9.H264.General.928X576.Width=928
Profile.9.H264.General.928X576.Height=576
Profile.9.H264.General.928X576.MaxFPS=25000
Profile.9.H264.General.928X576.DefaultFPS=25000
Profile.9.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.9.H264.General.928X576.MinCBRTargetBitrate=512
Profile.9.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.9.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.9.H264.General.928X576.MinVBRTargetBitrate=512
Profile.9.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.9.H264.General.928X576.IsTruncated=Normal
Profile.9.H264.General.704X576.Width=704
Profile.9.H264.General.704X576.Height=576
Profile.9.H264.General.704X576.MaxFPS=25000
Profile.9.H264.General.704X576.DefaultFPS=25000
Profile.9.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.9.H264.General.704X576.MinCBRTargetBitrate=512
Profile.9.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.9.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.9.H264.General.704X576.MinVBRTargetBitrate=512
Profile.9.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.9.H264.General.704X576.IsTruncated=Normal
Profile.9.H264.General.928X288.Width=928
Profile.9.H264.General.928X288.Height=288
Profile.9.H264.General.928X288.MaxFPS=25000
Profile.9.H264.General.928X288.DefaultFPS=25000
Profile.9.H264.General.928X288.MaxCBRTargetBitrate=6144
```

```
Profile.9.H264.General.928X288.MinCBRTargetBitrate=512
Profile.9.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.9.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.9.H264.General.928X288.MinVBRTargetBitrate=512
Profile.9.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.9.H264.General.928X288.IsTruncated=Normal
Profile.9.H264.General.704X288.Width=704
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Profile.9.H264.General.704X288.MinVBRTargetBitrate=512
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Profile.10.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
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JSON RESPONSE

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Content-type: application/json
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                            "DefaultFPS": 25000,
                            "MaxCBRTargetBitrate": 10240,
                            "MinCBRTargetBitrate": 1024,
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                        },
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                            "DefaultCBRTargetBitrate": 2048,
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```

```
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```

```
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                            "IsTruncated": "Normal"
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                    ]
                }
            ]
        },
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            "Profile": 7,
            "Codecs": [
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                    "EncodingType": "H264",
                    "General": [
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                            "DefaultFPS": 25000,
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                            "MinCBRTargetBitrate": 1024,
                            "DefaultCBRTargetBitrate": 2560,
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                        {
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                            "DefaultFPS": 25000,
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                            "DefaultCBRTargetBitrate": 2048,
```

```
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                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
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                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
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                    "DefaultVBRTargetBitrate": 1024,
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```

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            "Profile": 8,
            "Codecs": [
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                    "General": [
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```

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                {
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                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
                },
                {
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                    "Height": 576,
                    "MaxFPS": 25000,
                    "DefaultFPS": 25000,
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                    "MinCBRTargetBitrate": 512,
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                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
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                {
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                    "Height": 288,
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                    "DefaultFPS": 25000,
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                    "MinCBRTargetBitrate": 512,
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                    "IsTruncated": "Normal"
                },
                {
                    "Width": 704,
                    "Height": 288,
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```

```
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                            "DefaultCBRTargetBitrate": 1024,
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                            "MinVBRTargetBitrate": 512,
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                            "IsTruncated": "Normal"
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                }
            ]
        },
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                            "MinCBRTargetBitrate": 1024,
                            "DefaultCBRTargetBitrate": 2560,
                            "MaxVBRTargetBitrate": 15360,
                            "MinVBRTargetBitrate": 1536,
                            "DefaultVBRTargetBitrate": 2560,
                            "IsTruncated": "Normal"
                        },
                        {
                            "Width": 1280,
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```

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                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
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                },
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                    "Height": 576,
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                    "MinCBRTargetBitrate": 512,
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                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
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                    "MinCBRTargetBitrate": 512,
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                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
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                    "Width": 704,
```

```
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                            "MaxVBRTargetBitrate": 9216,
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            "Profile": 10,
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                            "DefaultCBRTargetBitrate": 2560,
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                            "MinVBRTargetBitrate": 1536,
                            "DefaultVBRTargetBitrate": 2560,
                            "IsTruncated": "Normal"
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                        {
                            "Width": 1280,
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                    "MaxVBRTargetBitrate": 12288,
                    "MinVBRTargetBitrate": 1536,
                    "DefaultVBRTargetBitrate": 2048,
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                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
                },
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                    "Width": 704,
                    "Height": 576,
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                    "DefaultFPS": 25000,
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                    "MinCBRTargetBitrate": 512,
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                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
                },
                {
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                    "Height": 288,
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                    "DefaultFPS": 25000,
                    "MaxCBRTargetBitrate": 6144,
                    "MinCBRTargetBitrate": 512,
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                    "MaxVBRTargetBitrate": 9216,
                    "MinVBRTargetBitrate": 512,
                    "DefaultVBRTargetBitrate": 1024,
                    "IsTruncated": "Normal"
                },
```

```
                            {
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                                "MinCBRTargetBitrate": 512,
                                "DefaultCBRTargetBitrate": 1024,
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                                "MinVBRTargetBitrate": 512,
                                "DefaultVBRTargetBitrate": 1024,
                                "IsTruncated": "Normal"
                            },
                            {
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                                "Height": 288,
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                                "DefaultFPS": 25000,
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                                "MinCBRTargetBitrate": 256,
                                "DefaultCBRTargetBitrate": 512,
                                "MaxVBRTargetBitrate": 3072,
                                "MinVBRTargetBitrate": 256,
                                "DefaultVBRTargetBitrate": 512,
                                "IsTruncated": "Normal"
                            }
                        ]
                    }
                ]
            }
        ]
    }
]
}
```


2.13.5.3 Getting an ‘profile’ resolution information based on Profile number

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videocodecinfo&action=view&Channel=0&Profile=3
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```


```
Channel.0.EncodingType=H264
Profile.3.H264.General.1920X1080.Width=1920
Profile.3.H264.General.1920X1080.Height=1080
Profile.3.H264.General.1920X1080.MaxFPS=25000
Profile.3.H264.General.1920X1080.DefaultFPS=25000
Profile.3.H264.General.1920X1080.MaxCBRTargetBitrate=10240
```

Profile.3.H264.General.1920X1080.MinCBRTargetBitrate=1024
Profile.3.H264.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.3.H264.General.1920X1080.MaxVBRTargetBitrate=15360
Profile.3.H264.General.1920X1080.MinVBRTargetBitrate=1536
Profile.3.H264.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.3.H264.General.1920X1080.IsTruncated=Normal
Profile.3.H264.General.1280X720.Width=1280
Profile.3.H264.General.1280X720.Height=720
Profile.3.H264.General.1280X720.MaxFPS=25000
Profile.3.H264.General.1280X720.DefaultFPS=25000
Profile.3.H264.General.1280X720.MaxCBRTargetBitrate=8192
Profile.3.H264.General.1280X720.MinCBRTargetBitrate=1024
Profile.3.H264.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.3.H264.General.1280X720.MaxVBRTargetBitrate=12288
Profile.3.H264.General.1280X720.MinVBRTargetBitrate=1536
Profile.3.H264.General.1280X720.DefaultVBRTargetBitrate=2048
Profile.3.H264.General.1280X720.IsTruncated=Normal
Profile.3.H264.General.928X576.Width=928
Profile.3.H264.General.928X576.Height=576
Profile.3.H264.General.928X576.MaxFPS=25000
Profile.3.H264.General.928X576.DefaultFPS=25000
Profile.3.H264.General.928X576.MaxCBRTargetBitrate=6144
Profile.3.H264.General.928X576.MinCBRTargetBitrate=512
Profile.3.H264.General.928X576.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.928X576.MaxVBRTargetBitrate=9216
Profile.3.H264.General.928X576.MinVBRTargetBitrate=512
Profile.3.H264.General.928X576.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.928X576.IsTruncated=Normal
Profile.3.H264.General.704X576.Width=704
Profile.3.H264.General.704X576.Height=576
Profile.3.H264.General.704X576.MaxFPS=25000
Profile.3.H264.General.704X576.DefaultFPS=25000
Profile.3.H264.General.704X576.MaxCBRTargetBitrate=6144
Profile.3.H264.General.704X576.MinCBRTargetBitrate=512
Profile.3.H264.General.704X576.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.704X576.MaxVBRTargetBitrate=9216
Profile.3.H264.General.704X576.MinVBRTargetBitrate=512
Profile.3.H264.General.704X576.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.704X576.IsTruncated=Normal
Profile.3.H264.General.928X288.Width=928
Profile.3.H264.General.928X288.Height=288
Profile.3.H264.General.928X288.MaxFPS=25000
Profile.3.H264.General.928X288.DefaultFPS=25000
Profile.3.H264.General.928X288.MaxCBRTargetBitrate=6144
Profile.3.H264.General.928X288.MinCBRTargetBitrate=512

```
Profile.3.H264.General.928X288.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.928X288.MaxVBRTargetBitrate=9216
Profile.3.H264.General.928X288.MinVBRTargetBitrate=512
Profile.3.H264.General.928X288.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.928X288.IsTruncated=Normal
Profile.3.H264.General.704X288.Width=704
Profile.3.H264.General.704X288.Height=288
Profile.3.H264.General.704X288.MaxFPS=25000
Profile.3.H264.General.704X288.DefaultFPS=25000
Profile.3.H264.General.704X288.MaxCBRTargetBitrate=6144
Profile.3.H264.General.704X288.MinCBRTargetBitrate=512
Profile.3.H264.General.704X288.DefaultCBRTargetBitrate=1024
Profile.3.H264.General.704X288.MaxVBRTargetBitrate=9216
Profile.3.H264.General.704X288.MinVBRTargetBitrate=512
Profile.3.H264.General.704X288.DefaultVBRTargetBitrate=1024
Profile.3.H264.General.704X288.IsTruncated=Normal
Profile.3.H264.General.352X288.Width=352
Profile.3.H264.General.352X288.Height=288
Profile.3.H264.General.352X288.MaxFPS=25000
Profile.3.H264.General.352X288.DefaultFPS=25000
Profile.3.H264.General.352X288.MaxCBRTargetBitrate=2048
Profile.3.H264.General.352X288.MinCBRTargetBitrate=256
Profile.3.H264.General.352X288.DefaultCBRTargetBitrate=512
Profile.3.H264.General.352X288.MaxVBRTargetBitrate=3072
Profile.3.H264.General.352X288.MinVBRTargetBitrate=256
Profile.3.H264.General.352X288.DefaultVBRTargetBitrate=512
Profile.3.H264.General.352X288.IsTruncated=Normal
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoCodecInfo": [
        {
            "Channel": 0,
            "Profile": 3,
            "ViewModes": [
                {
                    "ViewMode": "Overview",
                    "Codecs": [
                        {
                            "EncodingType": "H264",
                            "General": [
                                {
                                    "Width": 1920,
```

```
                "Height": 1080,
                "MaxFPS": 25000,
                "DefaultFPS": 25000,
                "MaxCBRTargetBitrate": 10240,
                "MinCBRTargetBitrate": 1024,
                "DefaultCBRTargetBitrate": 2560,
                "MaxVBRTargetBitrate": 15360,
                "MinVBRTargetBitrate": 1536,
                "DefaultVBRTargetBitrate": 2560,
                "IsTruncated": "Normal"
            },
            {
                "Width": 1280,
                "Height": 720,
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                "DefaultFPS": 25000,
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                "MinCBRTargetBitrate": 1024,
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                "MaxVBRTargetBitrate": 12288,
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                "DefaultVBRTargetBitrate": 2048,
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                "MinVBRTargetBitrate": 512,
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```

```
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                "DefaultVBRTargetBitrate": 1024,
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                "MinCBRTargetBitrate": 512,
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                "MaxVBRTargetBitrate": 9216,
                "MinVBRTargetBitrate": 512,
                "DefaultVBRTargetBitrate": 1024,
                "IsTruncated": "Normal"
            },
            {
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                "DefaultFPS": 25000,
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                "MinCBRTargetBitrate": 512,
                "DefaultCBRTargetBitrate": 1024,
                "MaxVBRTargetBitrate": 9216,
                "MinVBRTargetBitrate": 512,
                "DefaultVBRTargetBitrate": 1024,
                "IsTruncated": "Normal"
            },
            {
                "Width": 352,
                "Height": 288,
                "MaxFPS": 25000,
                "DefaultFPS": 25000,
                "MaxCBRTargetBitrate": 2048,
                "MinCBRTargetBitrate": 256,
                "DefaultCBRTargetBitrate": 512,
                "MaxVBRTargetBitrate": 3072,
                "MinVBRTargetBitrate": 256,
                "DefaultVBRTargetBitrate": 512,
                "IsTruncated": "Normal"
            }
        ]
```

```
                        }
                    ]
                }
            ]
        }
    ]
}
```

2.14 WiseStream

2.14.1 Description

The `wisestream` submenu is used to configure and view the WiseStream settings.

> **Note**
> This chapter applies to network cameras only.
> Attribute to check for feature support: “attributes.cgi/attributes/Media/Support/WiseStream”

Access level

Action	Camera	NVR
view	Admin	User
set	Admin	User

2.14.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=wisestream&action=<value>[&<parameter>=<value>]
```

2.14.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the video-profile policy settings
	Channel	REQ	<csv>	Channel ID
set	Channel	REQ, RES	<int>	Channel ID
	Mode	REQ, RES	<enum> `Off`, `Low`, `Medium`, `High`	WiseStream mode

2.14.4 Examples

2.14.4.1 Getting WiseStream settings

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=wisestream&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Mode=Off
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "WiseStream": [
        {
            "Channel": 0,
            "Mode": "Off"
```

```
        }
    ]
}
```

2.14.4.2 Setting the WiseStream mode

Setting WiseStream mode to "High"

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=wisestream&action=set&Mode=High
```

2.15 Camera Password Change

2.15.1 Description

The `camerapasswordchange` submenu requests the password change for all the connected cameras.

> **Note**
> This chapter applies to NVR only.

Access level

Action	NVR
view	User
control	User

2.15.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=camerapasswordchange&action=view
```

2.15.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	IsPasswordChanging	REQ	<bool>	Password change status
control	Mode	REQ	<enum> `Start`, `Cancel`	Mode to start or cancel the request
	NewPassword	REQ	<string>	Password to apply **`NewPassword`** is mandatory when **`Mode`** is `Start`.
	IsPasswordEncrypted	REQ	<bool> `True`, `False`	If set to `True`, password is encrypted using an RSA key and sent as POST content.
	Channel	RES	<int>	Channel number
	Model	RES	<string>	Model name
	Address	RES	<string>	IP address or URL
	Status	RES	<enum> `Success`, `Fail`, `ConnectionFail`, `CameraBlock`	Result status

2.15.4 Examples

2.15.4.1 Getting status of password change request

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=camerapasswordchange&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
IsPasswordChanging=False
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "IsPasswordChanging":    false
}
```

2.15.4.2 Setting the new password

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=camerapasswordchange&action=control&Mode=Start&NewPassword=Samsung@123
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Model=SAMSUNG CAM
Channel.0.Address=192.168.75.231
Channel.0.Status=ConnectionFail
Channel.1.Model=PNO-9080R
Channel.1.Address=192.168.75.221
Channel.1.Status=Success
Channel.2.Model=PNO-9080R
Channel.2.Address=192.168.75.207
Channel.2.Status=Fail
Channel.3.Model=PNO-9080RVM
Channel.3.Address=192.168.75.176
Channel.3.Status=Success
Channel.4.Model=SNP-6320RH
Channel.4.Address=192.168.75.75
Channel.4.Status=Success
Channel.5.Model=PNF-9010R
Channel.5.Address=192.168.75.40
Channel.5.Status=Success
Channel.6.Model=SNO-L6083R
Channel.6.Address=192.168.75.33
Channel.6.Status=Success
Channel.7.Model=SNB-6004
Channel.7.Address=192.168.75.2
Channel.7.Status=ConnectionFail
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "PasswordChangeStatus": [{
                    "Channel":      0,
                    "Model":"SAMSUNG CAM",
```

```
                    "Address":      "192.168.75.231",
                    "Status":       "ConnectionFail"
            }, {
                    "Channel":      1,
                    "Model":"SAMSUNG CAM",
                    "Address":      "192.168.75.221",
                    "Status":       "Success"
            }, {
                    "Channel":      2,
                    "Model":"PNO-9080R",
                    "Address":      "192.168.75.207",
                    "Status":       "Fail"
            }, {
                    "Channel":      3,
                    "Model":"PNO-9080RVM",
                    "Address":      "192.168.75.176",
                    "Status":       "Success"
            }, {
                    "Channel":      4,
                    "Model":"SNP-6320RH",
                    "Address":      "192.168.75.75",
                    "Status":       "Success"
            }, {
                    "Channel":      5,
                    "Model":"PNF-9010R",
                    "Address":      "192.168.75.40",
                    "Status":       "Success"
            }, {
                    "Channel":      6,
                    "Model":"SNO-L6083R",
                    "Address":      "192.168.75.33",
                    "Status":       "Success"
            }, {
                    "Channel":      7,
                    "Model":"SNB-6004",
                    "Address":      "192.168.75.2",
                    "Status":       "ConnectionFail"
            }]
}
```


2.15.4.3 Cancel the password change request

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=camerapasswordchange&action=control&Mode=Cancel
```

2.16 Media Options

2.16.1 Description

The `mediaoptions` submenu is used to view media options available in the device.

> **Note**
> This chapter applies to network cameras only.

Access level

Action	Camera
view	Admin

2.16.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu= mediaoptions
&action=<value>[&<parameter>=<value>...]
```

2.16.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the media options like crop ratio, minimum and maximum crop resolution supported by the device.
	Channel	REQ, RES	<csv>	Channel
	ViewModeType	RES	<enum> `Overview`, `360Panorama`, `Panorama`, `DoublePanorama`, `QuadView`, `SingleView`, `OneOverviewAndTripleView`, `OneOverviewAndOctaView`, `CropView`, `LeftHalfView`, `RightHalfView`, `QuadView.#`, `QuadView.#`	View mode type
	CropRatio	RES	<enum> `Manual`, `16:9`, `4:3`	Crop ratio
	MinCropResolution	RES	<string>	Minimum crop resolution
	MaxCropResolution	RES	<string>	Maximum crop resolution

2.16.4 Examples

2.16.4.1 Getting media options

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=mediaoptions&action=view
```

JSON RESPONSE

HTTP/1.0 200 OK
Content-type: application/json
<Body>


```
{
    "MediaOptions": [
        {
            "Channel": 0,
            "ViewModes": [
                {
                    "ViewModeType": "Overview",
                    "ResolutionsByCropRatio": [
                        {
                            "CropRatio": "16:9",
                            "MinCropResolution": "640x360",
                            "MaxCropResolution": "1280x720"
                        },
                        {
                            "CropRatio": "4:3",
                            "MinCropResolution": "320x240",
                            "MaxCropResolution": "1280x960"
                        },
                        {
                            "CropRatio": "Manual",
                            "MinCropResolution": "320x240",
                            "MaxCropResolution": "1280x1024"
                        }
                    ]
                }
            ]
        }
    ]
}
```

2.17 Synchronization Point Settings

2.17.1 Description

The `setsynchronizationpoint` submenu requests the intra frame for the given profile.

Access level

Action	Camera	NVR	Encoder
control	User	User	User

2.17.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=setsynchronizationpoint&action=control[&<parameter>=<value>...]
```

2.17.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
control	Channel	REQ	<Int>	Channel ID
	Profile	REQ	<int>	Profile index

2.17.4 Examples

2.17.4.1 Requesting Intra frame for Channel 0, Profile 2

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=setsynchronizationpoint&action=control&Channel=0&Profile=2
```

2.18 Video Source Options

2.18.1 Description

The **videosourceoptions** submenu views possible video source settings. Clients can identify each channel's video type or sensor size using this submenu.

> **Note**
> This chapter applies to the encoder only.

Access level

Action	Camera	NVR	Encoder
view	Admin		Admin

2.18.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosourceoptions&action=<value>[&<parameter>=<value>]
```

2.18.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Reads the video source options settings.
	Channel	REQ, RES	<csv>	Channel ID
	VideoType	RES	<enum> NTSC, PAL, AHD, TVI, CVI, CVBS	Video type The value may vary depending on the model. Please check the device attributes using attributes.cgi.
	VideoType.<VideoType enum>.SensorCaptureSize	RES	<csv> 2M, 4M, 5M, SD, 720P	Capture size The value may vary depending on the model. Please check the device attributes using attributes.cgi.
	VideoType.<Video Type enum>.SensorCaptureSize.<Sensor Capture size>.SensorCaptureFrameRate	RES	<csv> 25, 30, 50, 60	Capture frame rate The value may vary depending on the model. Please check the device attributes using attributes.cgi.

2.18.4 Examples

2.18.4.1 Getting video source settings

The following example is for encoder only

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosourceoptions&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.VideoType=AHD
Channel.0.VideoType.AHD.SensorCaptureSize=4M,2M
```

```
Channel.0.VideoType=TVI
Channel.0.VideoType.TVI.SensorCaptureSize=2M
Channel.0.VideoType=CVI
Channel.0.VideoType.CVI.SensorCaptureSize=2M
Channel.0.VideoType=CVBS
Channel.0.VideoType.CVBS.SensorCaptureSize=SD
…
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoOptions": [
        {
            "Channel": 0,
            "VideoTypes": [
                {
                    "VideoType": "AHD",
                    "SensorCaptureSize": [
                        "4M",
                        "2M"
                    ]
                },
                {
                    "VideoType": "TVI",
                    "SensorCaptureSize": [
                        "2M"
                    ]
                },
                {
                    "VideoType": "CVI",
                    "SensorCaptureSize": [
                        "2M"
                    ]
                },
                {
                    "VideoType": "CVBS",
                    "SensorCaptureSize": [
                        "SD"
                    ]
                }
            ]
        }
    ]
}
...
```

2.18.4.2 Getting video source settings

The following example is response of 2-channel camera

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosourceoptions&action=view
```

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.VideoType=PAL
Channel.0.VideoType.PAL.SensorCaptureSize=32M,24M,15M,8M
Channel.0.VideoType.PAL.SensorCaptureSize.32M.SensorCaptureFrameRate=15
Channel.0.VideoType.PAL.SensorCaptureSize.24M.SensorCaptureFrameRate=20
Channel.0.VideoType.PAL.SensorCaptureSize.15M.SensorCaptureFrameRate=30
Channel.0.VideoType.PAL.SensorCaptureSize.8M.SensorCaptureFrameRate=60
Channel.1.VideoType=PAL
Channel.1.VideoType.PAL.SensorCaptureSize=2M
Channel.1.VideoType.PAL.SensorCaptureSize.2M.SensorCaptureFrameRate=60,30,20,15
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoOptions": [
        {
            "Channel": 0,
            "VideoTypes": [
                {
                    "VideoType": "PAL",
                    "SensorCaptureSize": [
                        "32M",
                        "24M",
                        "15M",
                        "8M"
                    ],
                    "FrameRates": [
                        {
                            "SensorCaptureSize": "32M",
                            "SensorCaptureFrameRate": [
                                "15"
                            ]
                        },
                        {
                            "SensorCaptureSize": "24M",
                            "SensorCaptureFrameRate": [
                                "20"
                            ]
                        },
```

```
                    {
                        "SensorCaptureSize": "15M",
                        "SensorCaptureFrameRate": [
                            "30"
                        ]
                    },
                    {
                        "SensorCaptureSize": "8M",
                        "SensorCaptureFrameRate": [
                            "60"
                        ]
                    }
                ]
            }
        ]
    },
    {
        "Channel": 1,
        "VideoTypes": [
            {
                "VideoType": "PAL",
                "SensorCaptureSize": [
                    "2M"
                ],
                "FrameRates": [
                    {
                        "SensorCaptureSize": "2M",
                        "SensorCaptureFrameRate": [
                            "60",
                            "30",
                            "20",
                            "15"
                        ]
                    }
                ]
            }
        ]
    }
]
}
```

2.19 Eqsettings

2.19.1 Description

The `eqsettings` submenu requests equalizer settings per each channel.

> **Note**
> This chapter applies to the encoder only.

Access level

Action	Camera	NVR	Encoder
view	-	-	Guest
set			Admin
control			Admin

2.19.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=eqsettings&action=<value>[&<parameter>=<value>]
```

2.19.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	Channel	REQ/RES	<csv>	Channel ID An encoder uses from '0' to max channel count-1 for channel ID. A user can request multiple channels with comma.
	EqNumber	RES	<int>	Equalizer number. Range is from 1 to 5.
set	Channel	REQ/RES	<int>	Channel ID An encoder uses from '0' to max channel count-1 for channel ID.
	EqNumber	REQ/RES	<int>	Equalizer number. A user can use values from 1 to 5.
control		REQ		Device set the best appropriate equalizer value in each channel. No additional parameters are needed.

2.19.4 Examples

2.19.4.1 Getting equalizer settings for all channels

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=eqsettings&action=view
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: image/jpeg
Content-length: <image size>
<Body>
```

```
Channel.0.EqNumber=1
Channel.1.EqNumber=1
Channel.2.EqNumber=1
```

```
Channel.3.EqNumber=1
```

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=eqsettings&action=view&Channel=0,1
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "EqSetting": [
        {
            "Channel": 0,
            "EqNumber": 1
        },
        {
            "Channel": 1,
            "EqNumber": 1
        }
    ]
}
```

2.19.4.2 Setting custom equalizer value 3 to channel 2

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=eqsettings&action=set&Channel=2&EqNumber=3
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: image/jpeg
Content-length: <image size>
<Body>
```

```
OK
```

2.19.4.3 Requesting device to set appropriate equalizer settings to each channel

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=eqsettings&action=control
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: image/jpeg
Content-length: <image size>
<Body>
```

```
OK
```

2.20 Camera Register

2.20.1 Description

The `cameraregister` submenu can view, add, update, and remove network camera settings from NVR and encoders.

Access level

Action	Camera	NVR	Decoder
view	-	User	User
add/update		User	User
remove		User	User

2.20.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=cameraregister&action=<value>[&<parameter>=<value>]
```

2.20.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	DataRate	RES	float	In Mbps
	CPUUsage	RES	float	In percentage
	Status	RES	<enum> `Success`, `ConnectFail`, `AuthFail`, `MaxUserLimit`, `InvalidVideoFormat`, `AccBlock`, `Disconnected`	Registered network camera status
	Model	RES	<string>	Model name
	CamChannel	RES	<int>	Receive a request from the hta. Current set max is 16. MULTI-DIRECTION CAMERA ONLY
	IsBypassSupported	RES	<bool> `True`, `False`	NVR supports bypass CGI if this parameter is set to `True`.
add/update	Channel	REQ, RES		Read only
	Protocol	REQ, RES	<enum> `SAMSUNG`, `ONVIF`, `RTSP`	Read only
	UserID	REQ, RES	<string>	Camera user ID
	UserPassword	REQ	<string>	Camera user password
	IsPasswordEncrypted	REQ, RES	<bool> `True`, `False`	When password encryption is used enable this.
	AddressType	REQ, RES	<enum>	Cameras address type

			IPv4, IPv6, SamsungDDNS, URL, MAC	
	IPAddress	REQ, RES	<string>	IP address If AddressType=IPv4,IPv6
	DevicePort	REQ, RES	<int>	SVNP Port number This parameter is valid only when **Protocol** is set to SAMSUNG and **AddressType** is NOT set to SamsungDDNS.
	HTTPPort	REQ, RES	<int>	HTTP port number of camera. This parameter is valid only when **Protocol** is set to SAMSUNG and **AddressType** is NOT set to SamsungDDNS; or, **Protocol** is set to ONVIF and **AddressType** is NOT set to URL.
	AuthenticationType	REQ, RES	<enum> UserToken, Digest, CertificateBased	Authentication type This parameter is valid only when **Protocol** is set to ONVIF.
	StreamingMode	REQ, RES	<enum> TCP, UDP, HTTP, HTTPS	Streaming mode This parameter is valid only when **Protocol** is set to ONVIF, or RTSP. The value HTTPS is only available only when **Protocol** is set to RTSP.
	MACAddress	REQ, RES	<string>	MAC address This parameter is valid only when **AddressType** is set to MAC.
	URL	REQ, RES	<string>	URL This parameter is valid only when **AddressType** is set to SamsungDDNS, or URL.
	CamChannel	REQ, RES	<int>	When registering camera is a multidirectional camera.Refers to the channel number of multidirectional camera.
	VideoState	REQ, RES	<enum> On, Off	Changes the video streaming state for a channel.

	AudioState	REQ, RES	<enum> On, Off	Changes the audio streaming state for a channel.
remove	Channel	REQ	<int>	Remove camera channel

2.20.4 Examples

2.20.4.1 Getting registerd camera info

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=cameraregister&action=view
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "RegisteredCameras":    [{
                    "Channel":      0,
                    "Model":"XNB-8000",
                    "UserID":       "admin",
                    "Protocol":     "SAMSUNG",
                    "AddressType":  "IPv4",
                    "IPAddress":    "192.168.71.113",
                    "DevicePort":   4520,
                    "HTTPPort":     80,
                    "Status":       "Success",
                    "DataRate":     1.204000,
                    "CPUUsage":     0.200000
            }, {
                    "Channel":      1,
                    "Model":"XNP-6120H",
                    "UserID":       "admin",
                    "Protocol":     "SAMSUNG",
                    "AddressType":  "IPv4",
                    "IPAddress":    "192.168.71.98",
                    "DevicePort":   4520,
                    "HTTPPort":     80,
                    "Status":       "Success",
                    "DataRate":     1.982000,
                    "CPUUsage":     0.300000
            }
]
```

2.20.4.2 Adding camera to channel 16

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=cameraregister&action=add&Channel=16&Protocol=SAMSUNG&UserID=ad
min&UserPassword=5tkatjd!&IsPasswordEncrypted=False&AddressType=Ipv4&IPAddress=[CAM-
IP]
```

JSON RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: application/json
<Body>
```

```
{
    "Response":     "Success"
}
```

2.20.4.3 Adding multi-channel camera's channel 1 to NVR channel 16

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=cameraregister&action=add&Channel=16&Protocol=SAMSUNG&UserID=ad
min&UserPassword=5tkatjd!&IsPasswordEncrypted=False&AddressType=Ipv4&IPAddress=[CAM-
IP]&CamChannel=1
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "Response":     "Success"
}
```

2.20.4.4 Updating camera IP in channel 16

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=cameraregister&action=update&Channel=16&
Protocol=SAMSUNG&UserID=admin&UserPassword=5tkatjd!&IsPasswordEncrypted=False&
AddressType=Ipv4&IPAddress=[CAM-IP]
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "Response":     "Success"
}
```

2.20.4.5 Rremoving camera IP from channel 16

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=cameraregister&action=remove&Channel=16
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "Response":     "Success"
}
```

2.21 Auto Register

2.21.1 Description

The `autoregister` submenu registers a network camera to NVR sequentially.

Access level

Action	Camera	NVR	Decoder
view	--	User	User
control		User	User

2.21.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=autoregister&action=<value>[&<parameter>=<value>]
```

2.21.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	IsRegistering	RES	<bool> True,False	State
control	UserID	REQ	<string>	User ID
	UserPassword	REQ	<string>	Password
	IsPasswordEncrypted	REQ	<string>	Used when password encryption is used
	Protocol	REQ	<enum> SAMSUNG, ONVIF, RTSP	Camera registration protocol selection
	DevicePort	REQ	<int>	Device port number This parameter is valid only when **Protocol** is set to SAMSUNG.
	HTTPPort	REQ	<int>	HTTP port number This parameter is valid only when **Protocol** is set to SAMSUNG or ONVIF.
	IPAddress	REQ	<csv>	IP address

2.21.4 Examples

2.21.4.1 Getting Auto Registerd Cameras info

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=autoregister&action=view
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
```

```
    "IsRegistering":false, (True?)
}
```

2.21.4.2 Add Camera Auto Register

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=autoregister&action=control&UserID=admin&UserPassword=5tkatjd!&
IsPasswordEncrypted=False&Protocol=SAMSUNG&DevicePort=4520&HTTPPort=80&IPAddress=192.1
68.71.81,192.168.71.98,192.168.71.113
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "Response":     "Success"
}
```

2.22 Camera Discovery

2.22.1 Description

The `cameradiscovery` submenu discovers a network camera, and sets camera ip use parameters.

Access level

Action	Camera	NVR	Decoder
view	--	User	User
set		User	User

2.22.2 Syntax

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=cameradiscovry&action=<value>[&<parameter>=<value>]
```

2.22.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	Timeout	REQ	<int>	Discovery action Time out value The values must be within the range of 30 to 60.
	IPType	REQ, RES	<enum> `IPv4`, `IPv6`	IP address type
	Protocol	REQ, RES	<enum> `SAMSUNG`, `ONVIF`	Discovered camera protocol
	Model	REQ	<string>	Camera model name
	Interface	REQ	<enum> `Network1`, `Network2`, `Network3`, `Network4`	Camera default network inteface
	Status	REQ	<enum> `Registered`, `NotRegistered`	Status of discovered camera whether it's already registered or not registered.
set	Password	REQ	<string>	Password The **`set`** action is valid only when **`IPType`** is set to `IPv4` and **`Protocol`** is `Samsung`.
	IsPasswordEncrypted	REQ	<csv>	When password is encrypted enable this in the request.
	MACAddress	REQ, RES	<string>	Mac address of the discovered camera
	IPAssignType	REQ, RES	<enum> `DHCP`, `Manual`	IP type that needs to be assigned
	IPAddress	REQ, RES	<string>	IP address to be assinged
	SubnetMask	REQ, RES	<string>	Subnet mask to be assigned

	Gateway	REQ, RES	<string>	Gateway to be assigned
	DevicePort	REQ, RES	<int>	Device port to be assigned
	HTTPPort	REQ, RES	<int>	http port to be assinged

2.22.4 Examples

2.22.4.1 Getting discovered camera during 30’seconds

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=cameradiscovry&action=view&Timeout=30
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

{

```
{
    "DiscoveredCameras":[{
            "Protocol":"SAMSUNG",
            "CamerasByIPType":[{
                    "IPType":"IPv4",
                    "Cameras":[
                            {
                            "Model":"SNF-7010",
                            "Interface":    "Network1",
                            "Status":       "NotRegistered",
                            "IPAssignType": "Manual",
                            "IPAddress":    "192.168.31.244",
                            "HTTPPort":     80,
                            "MACAddress":   "00:09:18:30:a8:e1",
                            "DevicePort":   4520,
                            "SubnetMask":   "255.255.255.0",
                            "Gateway":      "192.168.31.1"
                            },
                            {
                            "Model":"SNO-L6013R",
                            "Interface":    "Network1",
                            "Status":       "NotRegistered",
                            "IPAssignType": "Manual",
                            "IPAddress":    "192.168.31.246",
                            "HTTPPort":     80,
                            "MACAddress":   "00:16:6c:ad:a2:5e",
                            "DevicePort":   4520,
                            "SubnetMask":   "255.255.255.0",
                            "Gateway":      "192.168.31.1"
                            }
            ]
    }]
    }, {
            "Protocol":"ONVIF",
```

```
            "CamerasByIPType":[{
                    "IPType":       "IPv4",
                    "Cameras":
                    [
                      {
                            "Model":"ENR-800S  ",
                            "Interface":    "Network1",
                            "Status":       "NotRegistered",
                            "IPAssignType": "Manual",
                            "IPAddress":    "192.168.111.230",
                            "HTTPPort":     80
                      },
                      {
                            "Model":"ENR-1600S  ",
                            "Interface":    "Network1",
                            "Status":       "NotRegistered",
                            "IPAssignType": "Manual",
                            "IPAddress":    "192.168.111.239",
                            "HTTPPort":     80
                    }
             ]
             }]
            }]
}}
```


2.22.4.2 Change/Update the discovered camera network setting.

REQUEST

Note: Here, the mac address is used to uniquely identify the device and change network settings.

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=cameradiscovery&action=set&Protocol=SAMSUNG&IPType=IPv4&IsPassw
ordEncrypted=False&Password=5tkatjd!&MACAddress=00:00:00:00:00:30&DevicePort=4553&HTTP
Port=80&IPAddress=192.168.71.182&SubnetMask=255.255.255.0&Gateway=192.168.71.1&IPAssig
nType=Manual
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```


```
{
    "Response":     "Success"
}
```

2.23 Camera Connection

2.23.1 Description

The `cameraconnection` submenu is used for testing the camera connection.

Access level

Action	Camera	NVR	Decoder
view	--	User	User
test		User	User

2.23.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=cameraconnection&action=<value>[&<parameter>=<value>]
```

2.23.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view	IsTestRunning	RES	<bool> `True`, `False`	Connection command running status view
test	Mode	REQ	<enum> `Start`, `Cancel`	Start test or cancel the connection test.
	Channel	REQ	<int>	Test camera channel This parameter is valid only when **`Mode`** is set to `Start`.
	CamChannel	REQ	<int>	Multi channel camera's channel number NVR ONLY
	Protocol	REQ	<enum> `SAMSUNG`, `ONVIF`, `RTSP`	Protocol This parameter is valid only when **`Mode`** is set to `Start`.
	UserID	REQ	<string>	Camera user ID
	UserPassword	REQ	<string>	Camera user password
	IsPasswordEncrypted	REQ	<bool> `True`, `False`	Enable when the password is encyrpted
	Model	REQ	<string>	Camera model name <optional>
	AddressType	REQ	<enum> `IPv4`, `IPv6`, `SamsungDDNS`, `URL`, `MAC`	Camera address type.
	IPAddress	REQ	<string>	IP address

				This parameter is valid only when **Mode** is set to Start, and **AddressType** is to IPv4, or IPv6.
	DevicePort	REQ	<int>	Device port number This parameter is valid only when **Mode** is set to Start, **Protocol** is to SAMSUNG, and **AddressType** is NOT to SamsungDDNS.
	HTTPPort	REQ	<int>	HTTP port number If Mode = Start, Protocol=SAMSUNG and AddressType!=SamsungDDNS or Protocol=ONVIF and AddressType!=URL
	AuthenticationType	REQ	<enum> UserToken, Digest, CertificateBased	Authentication type If Mode = Start, Protocol=ONVIF
	StreamingMode	REQ	<enum> TCP, UDP, HTTP, HTTPS	Streaming mode If Mode = Start,Protocol=ONVIF,RTSP; HTTPS is only for Protocol=RTSP
	MACAddress	REQ	<string>	Mac address If Mode = Start, AddressType=MAC
	URL	REQ	<string>	URL If Mode = Start, AddressType=SamsungDDNS,URL
	Status	RES	<string>	Status If Mode = Start

2.23.4 Examples

2.23.4.1 Getting camera connection test status

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=cameraconnection&action=view
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "IsTestRunning":false
}
```

2.23.4.2 Testing camera connection

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=cameraconnection&action=test&Mode=Start&Channel=1&Protocol=SAMS
UNG&UserID=admin&UserPassword=5tkatjd!&IsPasswordEncrypted=False&AddressType=IPv4&IPAd
dress=192.168.71.113
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "Status":       "Success"
}
```

2.24 Video Encoder Instances information

2.24.1 Description

The **videoencoderinstances** submenu requests the information about concurrent stream counts for a device. User can know about all limitations about stream count.

Access level

Action	Camera	Encoder
view	Guest	Guest

2.24.2 Syntax

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoencoderinstances&action=<value>[&<parameter>=<value>...]
```

2.24.3 Parameters

Action	Parameters	Request/ Response	Type/Values	Description
view				Read stream related information
	TotalConcurrentStreamCount	RES	<int>	Total count that a device can streams concurrently. This shall be different with sum of all channels' ConcorruntStreamCount.
	Channel	RES	<csv>	Channel value.
	ConcurrentStreamCount	RES	<int>	Total count that a channel can streams concurrently.
	NotSupportedConcurrentStreamViewModes	RES	<csv> Overview, QuadView, DoublePanorama, Panorama, QuadView.1, QuadView.2, QuadView.3, QuadView.4	Some fisheye models wouldn't support simultaneous streams among viewmodes. This parameter shows about those limitations. This parameter is optional and would be shown only in fisheye models and if that fisheye camera has some limitations for concurrent streaming among some viewmodes. FISHEYE ONLY

2.24.4 Examples

2.24.4.1 Getting information

The concurrent streaming count information would be provided like below.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoencoderinstances&action=view
```

The following response example is for Fisheye models.

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
```

```
<Body>
```

```
TotalConcurrentStreamCount=3
Channel.0.ConcurrentStreamCount=3
Channel.1.ConcurrentStreamCount=1
Channel.2.ConcurrentStreamCount=1
NotSupportedConcurrentStreamViewModes=DoublePanorama,Panorama
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoEncoderInstances": [
        {
            "TotalConcurrentStreamCount": 3,
            "ConcurrentStreamCounts": [
                    {
                        "Channel": 0,
                        "ConcurrentStreamCount": 3,
                    },
                    {
                        "Channel": 1,
                        "ConcurrentStreamCount": 1,
                    },
                    {
                        "Channel": 2,
                        "ConcurrentStreamCount": 1,
                    },
         }
}
```

The following response example is for common multi channel cameras.

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
TotalConcurrentStreamCount=9
Channel.0.ConcurrentStreamCount=3
Channel.1.ConcurrentStreamCount=3
Channel.2.ConcurrentStreamCount=3
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoEncoderInstances": [
        {
            "TotalConcurrentStreamCount": 9,
            "ConcurrentStreamCounts": [
                    {
                        "Channel": 0,
                        "ConcurrentStreamCount": 3,
                    },
                    {
                        "Channel": 1,
                        "ConcurrentStreamCount": 3,
                    },
                    {
                        "Channel": 2,
                        "ConcurrentStreamCount": 3,
                    },
         }
}
```

The following response example is for common single channel cameras.

TEXT RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
TotalConcurrentStreamCount=3
Channel.0.ConcurrentStreamCount=3
```

JSON RESPONSE

```
HTTP/1.0 200 OK
Content-type: application/json
<Body>
```

```
{
    "VideoEncoderInstances": [
        {
            "TotalConcurrentStreamCount": 3,
            "ConcurrentStreamCounts": [
                    {
                        "Channel": 0,
                        "ConcurrentStreamCount": 3,
                    },
         }
}
```

3 RTP/RTSP Streaming

3.1 Live URL/Authentication

3.1.1 Live URL for camera

The URLs for RTSP (Real Time Streaming Protocol) are as follows.

```
[Type1] rtsp://<Device IP>/<encoding>/media.smp
[Type2] rtsp://<Device IP>/profile<no>/media.smp
[Type3] rtsp://<Device IP>/multicast/<encoding>/media.smp
[Type4] rtsp://<Device IP>/multicast/profile<no>/media.smp
[Type5] rtsp://<Device IP>/<profile name>/media.smp
[Type6] rtsp://<Device IP>/multicast/<profile name>/media.smp

When Camera supports multiple sources:

[Type1] rtsp://<Device IP>/<chid>/<encoding>/media.smp
[Type2] rtsp://<Device IP>/<chid>/profile<no>/media.smp
[Type3] rtsp://<Device IP>/<chid>/multicast/<encoding>/media.smp
[Type4] rtsp://<Device IP>/<chid>/multicast/profile<no>/media.smp
[Type5] rtsp://<Device IP>/<chid>/<profile name>/media.smp
[Type6] rtsp://<Device IP>/<chid>/multicast/<profile name>/media.smp
```

Note

Refer to '2.10 Stream URI (page 51)' for information on how to get RTSP URLs using **`streamurl`** submenu in **`media.cgi`**.

- <Device IP>: The hostname or the network camera's IP address
- <encoding>: Video encoding type (MJPEG/H.264/MPEG4)

  Note

  Check the device attributes using **`attributes.cgi`** for the encoding type that the device supports.

- profile<no>: Video profile number (1 ... 10)
- <profile name> : Video profile name
- <chid>: Channel index starting from 0.

Note

The default RTSP port number is 554. You can change the port number by using HTTP/CGI commands if required.

3.1.2 Live URL for NVR

The URLs for RTSP (Real Time Streaming Protocol) are as follows.

```
[Type1] rtsp://<Device IP>:558/LiveChannel/<chid>/media.smp
[Type2] rtsp://<Device IP>:558/LiveChannel/<chid>/media.smp/session=<sid>
[Type3] rtsp://<Device IP>:558/LiveChannel/<chid>/media.smp/multicast&session=<sid>
[Type4] rtsp://<Device IP>:558/LiveChannel/<chid>/media.smp/iframe&multicast&session=<sid>
[Type5] rtsp://<Device
IP>:558/LiveChannel/<chid>/media.smp/profile=<profileNo>&session=<sid>
[Type6] rtsp://<Device
IP>:558/LiveChannel/<chid>/media.smp/ProfileUsage=<profileType>&session=<sid>
```

- <Device IP>: The hostname or the network camera's IP address

- <chid>: Channel index starting from 0.
- <sid>: Session ID
  As all live channels with same session ID are considered as one live session, all playback sessions with same session ID are considered as one session. If session ID is not changed, each RTSP connection will be considered as one session.
- <profileNo>: Any profile number from the profilepolicy submenu, that is currently being used in NVR

  Capability to verify: “Stream.MultiProfiles” attribute under Media/Support
- <profileType>: Any of the following types can be used “Live”, “Record”, or “Network”

  Capability to verify:” Stream.ProfileUsageBased” attribute under Media/Support

> **Note**
> <sid> should be unique for live, playback and backup mode.

> **Note**
> The default RTSP port number is 558. You can change the port number by using the HTTP/CGI commands if required.

3.1.3 Authentication

RTSP complies with RFC 2326 and uses RFC 2096 (Digest method) to authorize users.

The RTSP communication procedure is as follows.

1. Application (the client) delivers the DESCRIBE method, having no Authorization header.
2. Network camera (the server) responds with the 401 (Unauthorized) status code. At this time, the WWW-Authenticate response header is included, showing the MD5 authorization information.
3. The application generates an Authorization request header using the given MD5 information, and then delivers the DESCRIBE method again, including the Authorization request header.

3.2 RTSP Methods

The followings are types of RTSP methods.

Method	Description
OPTIONS	Notifies with the methods supported by the server.
GET_PARAMETER	Used for testing the client with no entity contents or for testing (ping) to ensure the server is alive.
DESCRIBE	Search for media streams identified by the presentation description or the aggregate URL.
SETUP	Specifies how a single media stream must be transported.
PLAY	Causes one or all media streams to be played, or restarted.
PAUSE	Temporarily halts one or all media streams.
TEARDOWN	Stops media stream transfer, and terminates the session and releases all resources related to the session.

3.3 RTSP Liveness

When **`Timeout`** is set to 60s with network.cgi (please refer to the ‘Network’ document), the device regularly checks if the RTSP command has been received. If the device receives no command within 1 minute, the RTP/RTSP session is automatically disconnected.

Therefore, if **`Timeout`** of **`rtsp`** submenu with **`network.cgi`** is set to 60s, the RTSP client should send the GET_PARAMETER or OPTION command within every 60 seconds to maintain the RTP/RTSP session.

3.4 RTSP Playback

3.4.1 Playback URL for camera

The URLs to view the saved video through RTSP (Real Time Streaming Protocol) are as follows.

```
[Type1] rtsp://<Device IP>/recording/<Start Time>/play.smp
[Type2] rtsp://<Device IP>/recording/<Start Time>-<End Time>/play.smp
[Type3] rtsp://<Device IP>/recording/play.smp

When Camera supports multiple sources:

[Type1] rtsp://<Device IP>/<chid>/recording/<Start Time>/play.smp
[Type2] rtsp://<Device IP>/<chid>/recording/<Start Time>-<End Time>/play.smp
[Type3] rtsp://<Device IP>/<chid>/recording/play.smp
```

- <Device IP>: The hostname or the network camera's IP address
- <Start Time>: Playback start time (in YYYYMMDDHHMMSS format). 20010203040506 denotes 4: 05:06 AM in February 3, 2001.
- <End Time>: Playback end time (YYYYMMDDHHMMSS format)
- profile<no>: Video profile number (1 ... 10)
- <chid>: Channel index starting from 0

Note 1

[Type1] continues to play the saved video from the <Start Time>.

[Type2] plays the saved video from <Start Time> to <End Time>. If the <Start Time> is set to later than the <End Time>, the video is played backward.

[Type3] plays the video in the range specified by Range header of the PLAY method. The time specified in Range header only supports the Absolute Time format defined in Ch 3.7 of RFC2326.

Note 2

[Type1] and [Type2] use Local Time, and [Type3] uses UTC Time.

Note 3

Multicast is not available during playback.

3.4.2 Playback URL for NVR

The URLs to view the saved video through RTSP (Real Time Streaming Protocol) are as follows:

```
[Type1] rtsp://<Device IP>:558/PlaybackChannel/<chid>/media.smp
[Type2] rtsp://<Device IP>:558/PlaybackChannel/<chid>/media.smp/session=<sid>
[Type3] rtsp://<Device
IP>:558/PlaybackChannel/<chid>/media.smp/overlap=<id>&session=<sid>
[Type4] rtsp://<Device
IP>:558/PlaybackChannel/<chid>/media.smp/overlap=<id>&session=<sid>&iframe
[Type5] rtsp://<Device
IP>:558/PlaybackChannel/<chid>/media.smp/start=<starttime>&end=<endtime>&overlap=<over
lapid>&session=<sid>
[Type6] rtsp://<Device
IP>:558/PlaybackChannel/<chid>/media.smp/start=<starttime>&end=<endtime>&overlap=<over
lapid>&session=<sid>&substream
```

- <Device IP>: The hostname or the network camera's IP address

- <chid>: Channel index starting from 0
- <sid>: Session ID
- <Start Time>: Playback start time
  Playback start time should be in the format of <YYYYMMDDTHHMMSS> (e.g, 20141206T111500) for local time and <YYYYMMDDTHHMMSSZ> (e.g, 20141206T110000Z) for UTC time.
- <End Time>: Playback end time
  Playback end time should be in the format of <YYYYMMDDTHHMMSS> (e.g, 20141206T111500) for local time and <YYYYMMDDTHHMMSSZ> (e.g, 20141206T110000Z) for UTC time.
- substream: If the NVR supports dual track recording, this option can be used to play the substream. If not passed, mainstream would be used by default. Check attributes/Recording/Support/DualTrackRecording capability for dual track recording support.

3.4.3 Media Track

In Playback's SDP, which can be acquired through the DESCRIBE method, information of all available saving codecs is included as an individual track. Use SETUP method to connect to each track, and to receive data of the corresponding track if the video's codec changes during the playback.

3.4.3.1 Examples

Playback SDP for camera

REQUEST

```
DESCRIBE rtsp://<Device IP>/recording/play.smp RTSP/1.0
```

RESPONSE

```
RTSP/1.0 200 OK
Content-type: application/sdp
<Body>
```

```
.....
m=video 40000 RTP/AVP 26
a=rtpmap:26 JPEG/90000
a=control:rtsp://<Device IP>/recording/play.smp/trackID=JPEG
m=video 40000 RTP/AVP 98
a=rtpmap:98 H264/90000
a=control:rtsp://<Device IP>/recording/play.smp/trackID=H264
m=audio 40000 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=control:rtsp://<Device IP>/recording/play.smp/trackID=PCMU
m=audio 40000 RTP/AVP 97
a=rtpmap:97 G726-32/8000
a=control:rtsp://<Device IP>/recording/play.smp/trackID=G726-32
.....
```

Playback SDP for NVR

REQUEST

```
DESCRIBE rtsp://<DeviceIP>:558/PlaybackChannel/<chid>/media.smp RTSP/1.0
```

RESPONSE

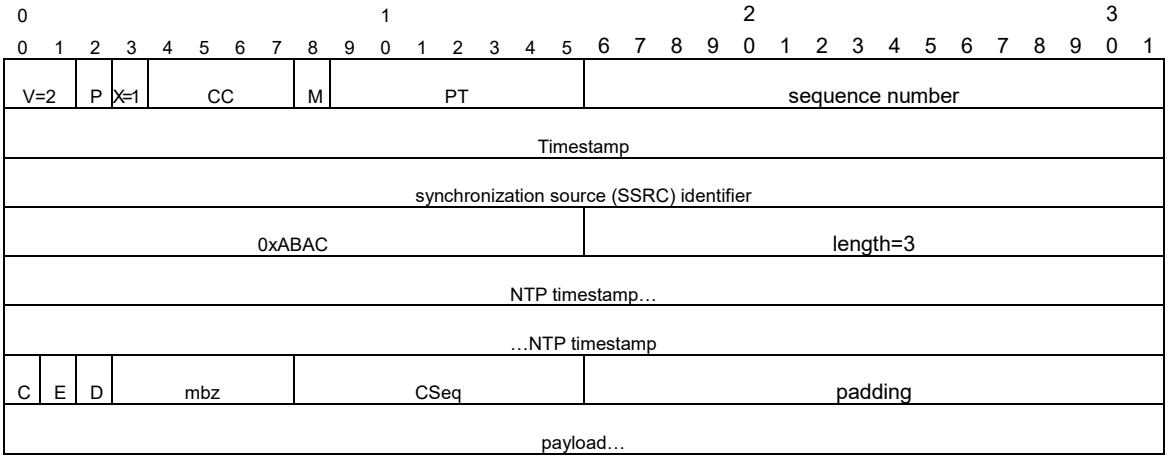
```
RTSP/1.0 200 OK
```

Content-type: application/sdp
<Body>

```
.....
m=video 0 RTP/AVP 98
b=AS:500
a=rtpmap:98 H264/90000
a=control:track1
a=x-onvif-track:video1
m=video 0 RTP/AVP 96
b=AS:500
a=rtpmap:96 MP4V-ES/90000
a=control:track2
a=x-onvif-track:video2
m=video 0 RTP/AVP 26
b=AS:500
a=rtpmap:26 JPEG/90000
a=control:track3
a=x-onvif-track:video3
m=audio 0 RTP/AVP 103
b=AS:500
a=control:track4
a=rtpmap:103 G726-40/8000/1
a=x-onvif-track:audio1
.....
```

3.4.4 RTP packet format

To know exactly when the currently playing video was recorded, an RTP extension header with the ID of 0xABAC included in the first packet of each frame data is also transferred. In this case, the RTP packet type is as follows.



Each item in the extension header is defined below.

Item	Description
0xABAC	Extension header ID
NTP timestamp	The recording time of the frame is displayed as a timestamp in NTP [RFC1305] format.

C	Indicates the “clean point”, which means the frame can be decoded without having the previous frame. For example, it means an I-frame in H.264.
E	Indicates the last frame of one continuous saving (recording) section. It is set to 1 if the frame is the last one of a playable section, or if frames have no saved video within the playable section.
D	If this frame had been recorded prior to the one already transferred, it is set to 1. When playing in reversed mode, D bit of every I-frame is set to 1.
mbz	Reserved. It is set to 0 in all cases.
CSeq	It is set to the value of subordinate 1 byte of RTSP PLAY command’s Cseq, which requested the video section being played.
padding	Reserved and not used, this is for sorting the extension header by 4-byte ordering.

Note

The above RTP extension header has the same format as the playback extension header defined by ONVIF Streaming Spec version 2.10.

The RTP extension for streaming MJPEG over 3 Megapixels is followed as defined by ONVIF Streaming Spec version 2.10 for both NVR and the camera.

3.4.5 Range Header

When requesting playback while connecting to an RTSP URL that contains no playback time information, the Range header to specify the playback range must be included in the RTSP PLAY command. In this case, the only time format of Range header is utc-range (the Absolute Time format specified by Ch 3.7 of RFC2326).

3.4.5.1 Examples

Specifying playback start time as June 15, 2012 20:33:15

REQUEST

```
PLAY rtsp://<Device IP>/recording/play.smp RTSP/1.0
Range: clock=20120615T203315Z-
```

RESPONSE

```
RTSP/1.0 200 OK
```

Specifying playback start/end time as June 15, 2012 20:33:15~40

REQUEST

```
PLAY rtsp://<Device IP>/recording/play.smp RTSP/1.0
Range: clock=20120615T203315Z-20120615T203340Z
```

RESPONSE

```
RTSP/1.0 200 OK
```

3.4.6 Scale Header

You can specify playback speed and direction by adding Scale header in RTSP PLAY command. If it is set to 1.0, the video is played at x1 speed; if it is set to 2.0, the video is played at x2 speed. If the value is lower than 0, the video is played in reverse.

If Scale header is not specified, the video is played at x1.0 speed by default.

Caution

If the requested speed is not supported by the camera, it is automatically changed to one that is supported.

3.4.6.1 Examples

Setting playback speed

REQUEST

```
PLAY rtsp://<Device IP>/recording/play.smp RTSP/1.0
Scale: 12.3
```

RESPONSE

```
RTSP/1.0 200 OK
Scale: 8.0
```

3.4.7 Rate-Control Header

You can change how network traffic is controlled by adding Rate-Control header in RTSP PLAY command. Rate-Control header can have “yes” or “no” as its value. If it is set to “yes”, the video is transmitted at the bitrate used to record it. If it is set to “no”, the video is transmitted as quickly as possible. If the Rate-Control is set to “no”, the Scale header can have only 1.0 or -1.0 (reverse play) for its value.

If Rate-Control header is not included, it is set to “yes” by default.

3.4.7.1 Examples

Requesting to transmit saved video as fast as possible

REQUEST

```
PLAY rtsp://<Device IP>/recording/play.smp RTSP/1.0
Rate-Control: no
```

RESPONSE

```
RTSP/1.0 200 OK
```

3.4.8 Frames Header

You can select and transmit specific kinds of frames by adding a Frames header in the RTSP PLAY command. The Frames header can have “intra”, “intra/<Interval>” or “all” as its value. If a Frames header is not included, it is set to “all” by default.

Header	Description
Frames: intra	Transmit only I-frame.
Frames: intra/<Interval>	Transmit I-frames only at the minimum interval of <Interval> ms.
Frames: all	Transmit all the frames.

> **Note**
> <interval> feature is supported only in cameras.

3.4.8.1 Examples

Transmitting only one I-frame per 3 seconds in saved video

REQUEST

```
PLAY rtsp://<Device IP>/recording/play.smp RTSP/1.0
Frames: intra/3000
```

RESPONSE

```
RTSP/1.0 200 OK
```

3.5 RTSP bi-directional audio

The audio out function can be used in the camera through RTSP. Since standard RTSP does not support two-way transmission, the Require header should be used to use this feature.

If client delivers a DESCRIBE request after adding an item of 'www.onvif.org/ver20/backchannel' in the Require header, the stream information for "audio out" with a=sendonly attribute is included in the SDP response. After making a session for "audio out" by using the SETUP command and delivering the PLAY command, the RTP audio data transmitted by client is output through the camera's "audio out" port.

3.5.1 Examples

Playback SDP for camera

REQUEST

```
DESCRIBE rtsp://<Device IP>/profile1/media.smp RTSP/1.0
CSeq: 1
Accept: application/sdp
Require: www.onvif.org/ver20/backchannel
```

RESPONSE

```
RTSP/1.0 200 OK
Content-type: application/sdp
<Body>
```

```
.....
m=audio 40002 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=control:rtsp://<Device IP>/profile1/media.smp/trackID=a
a=recvonly
.....
m=audio 40006 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=control:rtsp://<Device IP>/profile1/media.smp/trackID=t
a=sendonly
.....
```

> **Note**
> As shown in the above SDP, if a media including trackID=a is set up, the "audio in" function is activated. When a media including trackID=t is set up, the "audio out" function is activated.

Playback SDP for NVR

REQUEST

```
DESCRIBE rtsp://<Device IP>:558/LiveChannel/<chid>/media.smp RTSP/1.0
CSeq: 1
Accept: application/sdp
Require: www.onvif.org/ver20/backchannel
```

RESPONSE

```
RTSP/1.0 200 OK
Content-type: application/sdp
<Body>
```

```
.....
m=audio 8002 RTP/AVP 0
b=AS:64
a=control:trackID=a
a=rtpmap:0 PCMU/8000/1
a=recvonly
```

```
……
m=audio 8006 RTP/AVP 0
a=control:trackID=back
a=rtpmap:0 PCMU/8000/1
a=sendonly……
```

3.6 RTSP Backup

> **Note**
> RTSP backup is applicable only for NVR.

The URLs for RTSP backup are as follows:

```
[Type1] rtsp://<Device IP>:558/BackupChannel/<chid>/media.smp
[Type2] rtsp://<Device IP>:558/BackupChannel/<chid>/media.smp/session=<sid>
[Type3] rtsp://<Device
IP>:558/BackupChannel/<chid>/media.smp/overlap=<id>&session=<sid>
[Type4] rtsp://<Device
IP>:558/BackupChannel/<chid>/media.smp/overlap=<id>&session=<sid>&iframe
[Type5] rtsp://<Device
IP>:558/BackupChannel/<chid>/media.smp/start=<starttime>&end=<endtime>&overlap=<overla
pid>&session=<sid>
```

- <Device IP>: The hostname or the network camera's IP address
- <chid>: Channel index starting from 0
- <sid>: Session ID
- <Start Time>: Playback start time
  Playback start time should be in the format of <YYYYMMDDTHHMMSS> (e.g, 20141206T111500) for local time and <YYYYMMDDTHHMMSSZ> (e.g, 20141206T110000Z) for UTC time.
- <End Time>: Playback end time
  Playback end time should be in the format of <YYYYMMDDTHHMMSS> (e.g, 20141206T111500) for local time and <YYYYMMDDTHHMMSSZ> (e.g, 20141206T110000Z) for UTC time.

3.7 SRTP Streaming

This feature is supported only in the camera as of now. The client can check the media/support section of attributes for "Stream.SRTP.UDP" and "Stream.SRTP.Multicast" attributes.

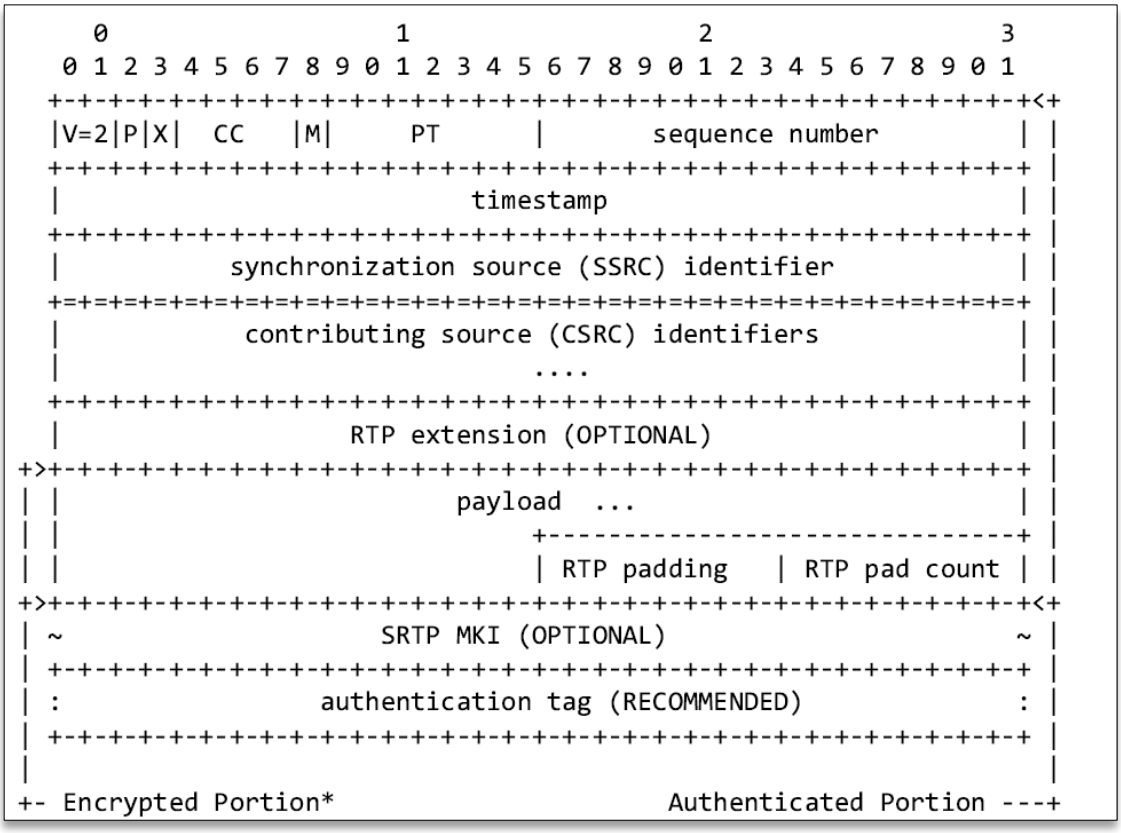
> **Note**
> At present Stream.SRTP.Multicast is not supported

References

- RFC 2326 – Real Time Streaming Protocol (RTSP) (https://tools.ietf.org/html/rfc3326)
- RFC 3711 – The Secure Real-time Transport Protocol (SRTP)(https://tools.ietf.org/html/rfc3711)
- RFC 5285 – A General Mechanism for RTP Header Extensions (https://tools.ietf.org/html/rfc5285)
- RFC 4567 – Key Management Extensions for Session Description Protocol (SDP) and Real Time Streaming Protocol (RTSP) (https://tools.ietf.org/html/rfc4567)
- RFC 3830 – MIKEY: Multimedia Internet KEYing (https://tools.ietf.org/html/rfc3830)

SRTP Packet format

In the following RTP data the payload is encrypted.



The following security policies are used

- Encryption algorithm – AES-CM
- Master key length – 128 bits
- Master key salt – 112 bits
- Authentication algorithm – HMAC-SHA1
- Authentication key length – 160bits
- Authentication tag length – 80bits
- MKI length – 32 bits

Extension Header

To help the client recognize the Key frame without decrypting the RTP payload, an RTP extension is used, For [RFC5285], if a one byte extension profile 0xBEDE is used, the extension payload would have 0xE0050000 in the first packet of the key frame, and in the case of MJPEG the first packet of all frames would have this extension header.

It is possible that the first packet of a key frame already includes a header extension. Since RTP packets only allow one extension profile, this poses a problem. In this case, an empty RTP packet containing the key frame header extension shall be inserted right before the actual first packet in the frame. This empty packet is considered part of the frame so it must have the same RTP timestamp as the rest of the frame and must not be marked.

Key Exchange

There are several key exchange methods, but only the MIKEY method is supported as of now [RFC 3830].

Sample MIKEY message after base64 encoding would look like:

```
AQAFAP1td9ABAADCD1UcAAAAAAoAAdOOGc75XD0BAAAAGAABAQEBEAIBAQMBFAcBAQgBAQoBAQsBCgAAACcAIQ
Ae30C59UrClE0e27UP5h/Wty9UL8+dfzg+2ttmmo3uRAAAAC8A
```

For secure communication, RTSP over TLS is used and 322 would be the default port, but it can be changed using the rtspovertls submenu in network cgi. Since the Key exchange happens using the SDP or SETUP, it can be protected only using the RTSP over TLS.

In the setup request the client passes the MIKEY message and the device uses this master key provided.

```
SETUP rtsp://<RTSP_URI> RTSP/1.0
CSeq: 2
User-Agent: RTSPClient
Transport: RTP/SAVP/UDP;unicast
KeyMgmt:
prot=mikey;uri="";data="AQAFAP1td9ABAADCD1UcAAAAAAoAAdOOGc75XD0BAAAAGAABAQEBEAIBAQ
MBFAcBAQgBAQoBAQsBCgAAACcAIQAe30C59UrClE0e27UP5h/Wty9UL8+dfzg+2ttmmo3kBAAAAC8A"
```

Transport profile should be RTP/SAVP, if it's different MIKEY may not be recognized.

Re-keying can be done using the SET PARAMETER command, and the device accepts the new key without resetting the ROC (Roll over Counter).

```
SET_PARAMETER rtsp://<RTSP_URI> RTSP/1.0
CSeq: 8
Session: 1570
User-Agent: RTSPClient
Content-Type: text/parameters
Content-Length: 145
mikey:
AQAFAGgCr8EBAADSvxgkAAAAAAoAAdOOK7UihqIBAAAAGAABAQEBEAIBAQMBFAcBAQgBAQoBAQsBCgAAACcAIQ
Aepekjs88g+Q7AU6LAvRsoVyn18ZW1JuXI9qht4g6+BAAAAAIA
```

3.8 BestShot Streaming

Any device that supports metaimagetransfer also supports Bestshot streaming using RTSP/RTP.

A Bestshot image can also be retrieved on the client end using an additional RTP session dedicated to bestshot image streaming. It would be provided only when a Describe request has "**`Require: Bestshot`**"

Request (Example):

```
DESCRIBE rtsp://192.168.9.100:554/profile2/media.smp RTSP/1.0
CSeq: 2
Authorization: Digest
username="admin",realm="iPOLiS",nonce="C9AB5CEC50A78C07C25704A9675B171E",uri="rtsp://1
92.168.9.100:554/profile2/media.smp",cnonce="814ae708b84f4f0f9f2e51fe1624166d",nc=0000
0001,response="40899fab43a5df53c72f8b3683f023e2",qop="auth"
User-Agent: oscar-rtsp-client
Require: Bestshot
```

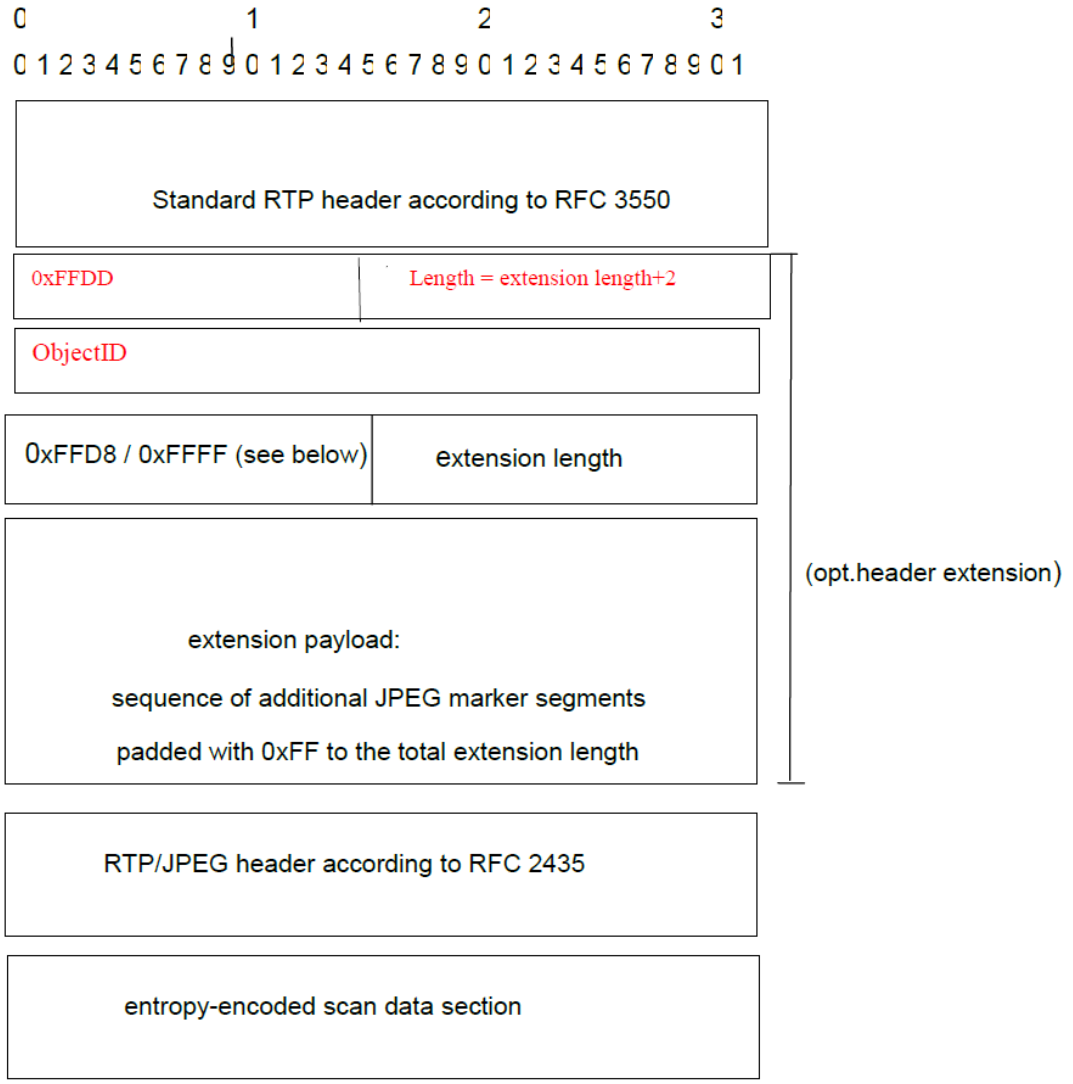
SDP RESPONSE format

```
a=control:rtsp://192.168.75.52:554/0/onvif/profile1/media.smp
a=range:npt=now-
m=video 40104 RTP/AVP 26
a=rtpmap:26 JPEG/90000
a=control:rtsp://192.168.75.52:554/0/onvif/profile1/media.smp/trackID=v
m=application 40106 RTP/AVP 107
```

```
b=AS:8
a=rtpmap:107 vnd.onvif.metadata/90000
a=control:rtsp://192.168.75.52:554/0/onvif/profile1/media.smp/trackID=m
a=recvonly
m=video 40108 RTP/AVP 26
i=MetaImageSession
a=rtpmap:26 JPEG/90000
a=control:rtsp://192.168.75.52:554/0/onvif/profile1/media.smp/trackID=MI
a=recvonly
```

RTP extension to pass the object ID

In the below extension, if the resolution of the JPEG is over 3 megapixels, ONVIF extension header can be used additionally. In that case, the Length of the extension header is extensionlength+2, if the resolution is less than 3 megapixels, Length of extension header is Just 1.



Note

In the metaimage RTP session, RTP timestamp does not need to be monotonically in increasing order. The rtp timestamp will be based on the bestshot capture time, which could be before the current time. The current ntp time of camera can be retrieved from RTCP, and based on that, frame time can be calculated.

Filtering Objects from Playback

> **Note**
> This section is only applicable to NVR with AI capabilities (attributes/System/Support/AIFeatures) and only while performing playback.

Playback url can be used as below:

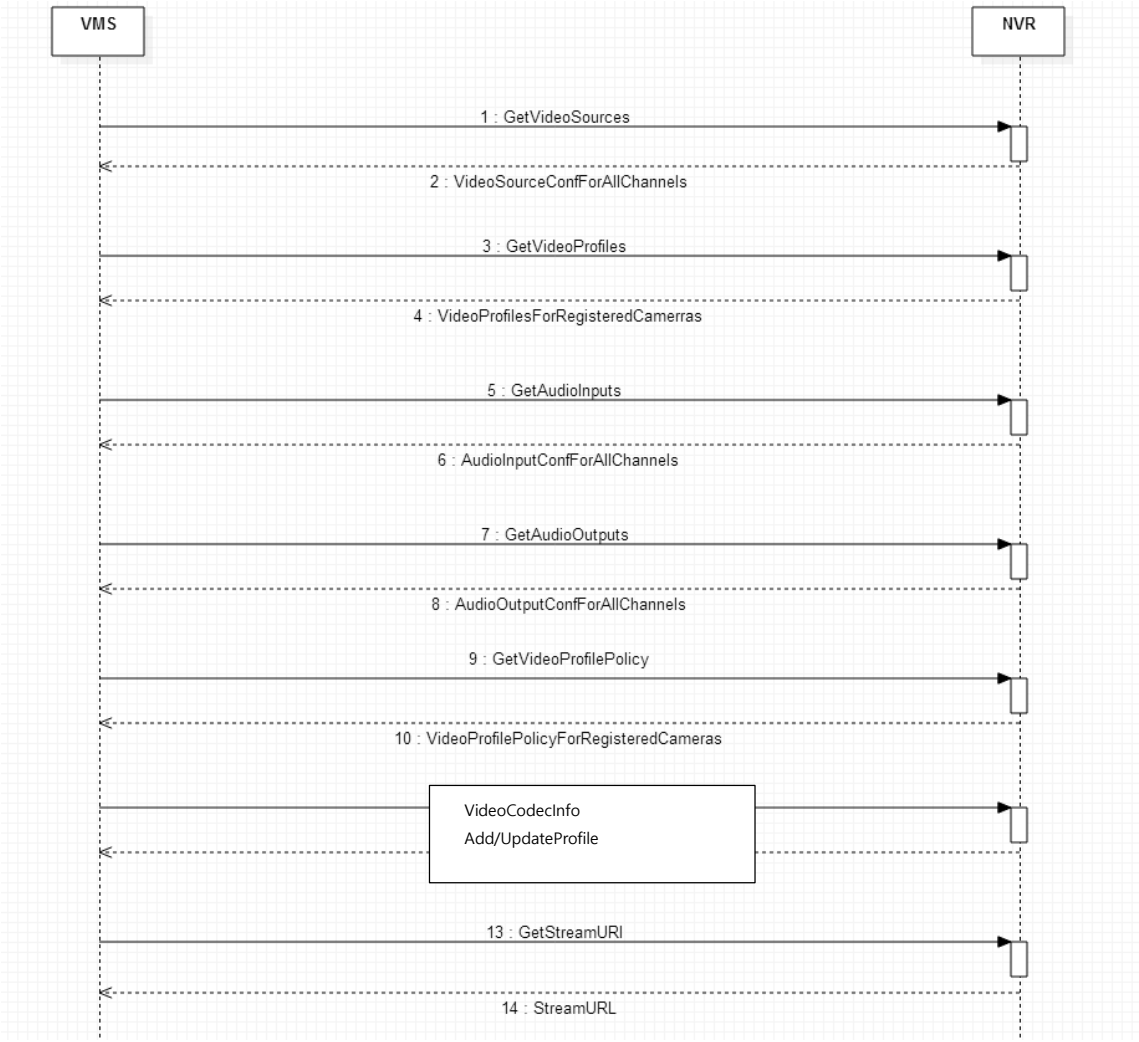
```
rtsp://<ip>/PlaybackChannel/<chid>/media.smp/BestshotFilter=Face&session=<sid>
rtsp://<ip>/PlaybackChannel/<chid>/media.smp/BestshotFilter=Vehicle&session=<sid>
```

If **`Require:Bestshot`** is absent in the request, BestshotFilter is ignored in the URL.

If each channel in a single playback session (Playback sessions using same session id) carries a different Filter, the last RTSP request supersedes the others.

If FilterType is not present in the request url and **`Require:Bestshot`** is passed, Person type would be sent by default.

4 Simple Connection Progress in Encoder



4.1 Get Video Sources

This command will return information about all video sources, whether a camera is registered or not, and whether video is enabled or not. Users can also identify which channels are connected. Users can request a specific channel's information with channel parameters.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videosource&action=view
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Type=NTSC
Channel.0.SensorCaptureSize=Unknown
Channel.0.Name=CAM 01
Channel.0.State=On
Channel.1.Type=NTSC
Channel.1.SensorCaptureSize=Unknown
Channel.1.Name=CAM 02
```

```
Channel.1.State=On
Channel.2.Type=NTSC
Channel.2.SensorCaptureSize=Unknown
Channel.2.Name=CAM 03
Channel.2.State=On
```

4.2 Get Video Profiles

This command will return information about the video profiles for all requested channels.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofile&action=view&Channel=0
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Profile.1.Name=MJPEG
Channel.0.Profile.1.EncodingType=MJPEG
Channel.0.Profile.1.RTPMulticastEnable=False
Channel.0.Profile.1.RTPMulticastAddress=
Channel.0.Profile.1.RTPMulticastPort=0
Channel.0.Profile.1.RTPMulticastTTL=5
Channel.0.Profile.1.Resolution=1280x720
Channel.0.Profile.1.FrameRate=2
Channel.0.Profile.1.CompressionLevel=10
Channel.0.Profile.1.Bitrate=2560
Channel.0.Profile.1.MJPEG.PriorityType=Bitrate
Channel.0.Profile.1.AudioInputEnable=False
Channel.0.Profile.1.ViewModeType=Overview
Channel.0.Profile.1.IsFixedProfile=True
Channel.0.Profile.1.ProfileToken=DefaultProfile-01-0
```

4.3 Get Audio Inputs

This command will return information about audio input configuration, such as enabled status, encoding type, etc. for all channels. Audio input counts may differ to channel counts, so you need check the results carefully.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=audioinput&action=view
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.Enable=True
Channel.0.SampleRate=0
Channel.0.Mode=Mono
Channel.0.EncodingType=G711
Channel.0.Bitrate=0
Channel.0.Gain=1
Channel.1.Enable=True
Channel.1.SampleRate=0
Channel.1.Mode=Mono
```

```
Channel.1.EncodingType=G711
Channel.1.Bitrate=0
Channel.1.Gain=1
```

4.4 Get Audio Outputs

This command will return information about the audio talk configuration, such as enabled/disabled status, decoding type, etc. for all channels. Audio input counts may differ from channel counts, so you need check the results carefully.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=audiooutput&action=view
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.SampleRate=8000
Channel.0.DecodingType=G711
Channel.0.Mode=Mono
Channel.0.Bitrate=64000
Channel.0.Enable=True
Channel.0.Gain=5
```

4.5 Get Video Profile Policy

This command will return information about the configured profile index numbers for Live, Network, and Recording for all registered channels.

REQUEST

```
http://<Device IP>/stw-cgi/media.cgi?msubmenu=videoprofilepolicy&action=view
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.DefaultProfile=2
Channel.0.EventProfile=1
Channel.1.DefaultProfile=2
Channel.1.EventProfile=1
Channel.2.DefaultProfile=2
Channel.2.EventProfile=1
Channel.3.DefaultProfile=2
Channel.3.EventProfile=1
Channel.4.DefaultProfile=2
Channel.4.EventProfile=1
```

4.6 Get resolution information for creating or updating profile

This command will return information about profile configuration (resolution, encoding type, max framerate, etc.. An encoder may have a different resolution or codec limitation for each profile, so users should submit requests with a profile number or use the AllProfiles parameter.

REQUEST

```
http://<Device IP>/stw-
```

```
cgi/media.cgi?msubmenu=videocodecinfo&action=view&Channel=0&AllProfiles=True
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Channel.0.EncodingType=MJPEG
Channel.0.ViewMode=Overview
Profile.1.MJPEG.General.1920X1080.Width=1920
Profile.1.MJPEG.General.1920X1080.Height=1080
Profile.1.MJPEG.General.1920X1080.MaxFPS=2000
Profile.1.MJPEG.General.1920X1080.DefaultFPS=2000
Profile.1.MJPEG.General.1920X1080.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.1920X1080.MinCBRTargetBitrate=2048
Profile.1.MJPEG.General.1920X1080.DefaultCBRTargetBitrate=2560
Profile.1.MJPEG.General.1920X1080.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.1920X1080.MinVBRTargetBitrate=2048
Profile.1.MJPEG.General.1920X1080.DefaultVBRTargetBitrate=2560
Profile.1.MJPEG.General.1920X1080.IsTruncated=Normal
Profile.1.MJPEG.General.1280X720.Width=1280
Profile.1.MJPEG.General.1280X720.Height=720
Profile.1.MJPEG.General.1280X720.MaxFPS=2000
Profile.1.MJPEG.General.1280X720.DefaultFPS=2000
Profile.1.MJPEG.General.1280X720.MaxCBRTargetBitrate=10240
Profile.1.MJPEG.General.1280X720.MinCBRTargetBitrate=1024
Profile.1.MJPEG.General.1280X720.DefaultCBRTargetBitrate=2048
Profile.1.MJPEG.General.1280X720.MaxVBRTargetBitrate=10240
Profile.1.MJPEG.General.1280X720.MinVBRTargetBitrate=1024
Profile.1.MJPEG.General.1280X720.DefaultVBRTargetBitrate=2048
```

4.7 Add/update video profile

Users can add a new profile or update to a specific profile with various parameter device supports. Users can get setting parameter limitations by request using the videocodecinfo submenu.

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofile&action=add&Channel=0&Name=test&EncodingType=H264
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
Profile=4
OK
```

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=videoprofile&action=update&Channel=0&Profile=2&FrameRate=15
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
OK
```

4.8 Get Stream URI For Live

This command will return the URL to get live streams from a requested channel and profile.

REQUEST

```
http://<Device IP>/stw-
cgi/media.cgi?msubmenu=streamuri&action=view&Channel=0&MediaType=Live&Mode=Full&Stream
Type=RTPUnicast&TransportProtocol=TCP&RTSPOverHTTP=False&Profile=2
```

RESPONSE

```
HTTP/1.0 200 OK
Content-type: text/plain
<Body>
```

```
URI=rtsp://192.168.71.123:554/0/profile2/media.smp
```

5 Annex A: Metadata Schema

Event Type	Metadata Format	Comments
POS	<tt:MetaDataStream xmlns:tt="http://www.onvif.org/ver10/schema"> <tt:POSData > <tt:POSFrame ID="0" UtcTime="2015-09-10T12:24:57.321"> ..... </tt:POSFrame> </tt:POSData> </tt:MetaDataStream>	Applicable device: NVR
GPS	<tt:MetaDataStream xmlns:tt="http://www.onvif.org/ver10/schema"> <tt:GPSData> <tt:Data Format="GPRMC" UtcTime="2015-09-10T12:24:57.321"> GPRMC,123519,A,4807.038,N,01131.000,E,022.4,084.4,230394,003 .1,W*6A </tt:Data> </tt:GPSData> </tt:MetaDataStream>	Applicable device: NVR
Digital Auto Tracking (Area Details Event) ProfileToken: Media Profile Token which is currently used for Digital Auto Tracking	<tt:VideoAnalytics> <tt:Frame UtcTime="2016-03-21T10:54:08.448Z"> <tt:Transformation> <tt:Translate x="-1.0" y="1.0" /> <tt:Scale x="0.000521" y="-0.000926" /> </tt:Transformation> <tt:Object ObjectId="5211"> <tt:Appearance> <tt:Shape> <tt:BoundingBox left="2855.0" top="682.0" right="3242.0" bottom="937.0" /> <tt:CenterOfGravity x="3048.5" y="809.5" /> </tt:Shape> </tt:Appearance> </tt:Object> <tt:Extension> <tnssamsung:DigitalAutoTracking MediaProfileToken="cb4fbc38-e5f6-4ff0-b2e8-2e166b4414d1"/> </tt:Extension> </tt:Frame> </tt:VideoAnalytics>	Applicable device: Camera
Digital Auto Tracking (State Event) ProfileToken: Media Profile Token which is currently used for Digital Auto Tracking	<tt:MetadataStream> <tt:Event> <wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet" >tns1:VideoSource/tnssamsung:DigitalAutoTracking</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-03-21T11:01:26.346Z" PropertyOperation="Changed"> <tt:Source> <tt:SimpleItem Name="MediaProfileToken" Value="cb4fbc38-e5f6-4ff0-b2e8-2e166b4414d1" /> </tt:Source> <tt:Data> <tt:SimpleItem Name="State" Value="true" /> </tt:Data> </tt:Message> </wsnt:Message>	Applicable device: Camera

Event Type	Metadata Format	Comments
	</wsnt:NotificationMessage> </tt:Event> </tt:MetadataStream>	
Motion Detection Event ROIId: ROI ID which triggers the event. Index starts from 1. It is a string parameter and it can be CSV value, to support motion happening in multiple ROIS at the same time	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet" >tns1:RuleEngine/MotionRegionDetector/Motion</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-03-31T00:15:58.421Z" PropertyOperation="Initialized"> <tt:Source> tt:SimpleItem Name="VideoSourceToken" Value="cb4fbc38-e5f6-4ff0-b2e8-2e166b4414d1"/> </tt:Source> <tt:Key> <tt:SimpleItemDescription Name="ROIId" Type="1,2,3,4"/> </tt:Key> <tt:Data> tt:SimpleItem Name="State" Value="false"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	Applicable device: Camera
Fog Detection	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet xmlns:wsnt=http://docs.oasis-open.org/wsn/b-2 xmlns:tns1=http://www.onvif.org/ver10/topics">tns1:VideoSource/ImageTooBlurry/ImagingService</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-12-14T15:54:44Z" PropertyOperation="Initialized"> <tt:Source> <tt:SimpleItem Name="Source" Value="VideoSource1"/> </tt:Source> <tt:Data> <tt:SimpleItem Name="State" Value="false"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	Applicable device: Camera
Sound Classification (Audio Analytics)	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet xmlns:wsnt=http://docs.oasis-open.org/wsn/b-2 xmlns:tns1=http://www.onvif.org/ver10/topics">tns1:AudioAnalytics/Audio/DetectedSound </wsnt:Topic> <wsnt:Message> <tt:Message PropertyOperation="Initialized" UtcTime="2016-12-14T15:54:44Z"> <tt:Source> <tt:SimpleItem Value=""“AudioSourceConfigurationToken" Name=""“AudioSourceConfigurationToken1"/> <tt:SimpleItem Value=""“AudioAnalyticsConfigurationToken" Name=""“AudioAnalyticsConfigurationToken1"/> <tt:SimpleItem Value=""“Rule" Name=""“Rule1"/> </tt:Source> <tt:Data>	gun_shot, scream, glass_breaking, explosion Applicable device: Camera

Event Type	Metadata Format	Comments
	<tt:SimpleItem Value="true" Name="isSoundDetected"/> <tt:SimpleItem Value="2016-12-14T15:54:44Z" Name="UTCTime"/> <tt:SimpleItem Value="gun_shot" Name="AudioClassifications"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	
Video Analytics	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet xmlns:wsnt=http://docs.oasis-open.org/wsn/b-2 xmlns:tns1=http://www.onvif.org/ver10/topics xmlns:tnssamsung=http://www.samsungcctv.com/2011/event/topics">tns1:VideoAnalytics/tnssamsung:VideoAnalytics</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-12-14T15:54:44Z"> <tt:Source> <tt:SimpleItem Value="VideoSource1" Name="VideoSourceToken"/> </tt:Source> <tt:Data> <tt:SimpleItem Value="0" Name="State"/> <tt:SimpleItem Value="None" Name="Action"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	Right, Left, Enter, Exit, Appear/Disapper, Intrusion, Loitering, None Applicable device: Camera
Face Detection	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet xmlns:wsnt=http://docs.oasis-open.org/wsn/b-2 xmlns:tns1=http://www.onvif.org/ver10/topics xmlns:tnssamsung=http://www.samsungcctv.com/2011/event/topics">tns1:VideoSource/tnssamsung:FaceDetection</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-12-14T15:54:44Z"> <tt:Source> <tt:SimpleItem Name="VideoSourceToken" Value="VideoSource1"/> </tt:Source> <tt:Data> <tt:SimpleItem Name="Face" Value="0"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	Applicable device: Camera

Event Type	Metadata Format	Comments
Tampering / SceneChange	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet xmlns:wsnt=http://docs.oasis-open.org/wsn/b-2 xmlns:tns1=http://www.onvif.org/ver10/topics">tns1:VideoSource/GlobalSceneChange/ImagingService</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-12-14T15:54:44Z" PropertyOperation="Initialized"> <tt:Source> <tt:SimpleItem Name="Source" Value="VideoSource1"/> </tt:Source> <tt:Data> <tt:SimpleItem Name="State" Value="false"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	Applicable device: Camera, NVR
Relay	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet xmlns:wsnt=http://docs.oasis-open.org/wsn/b-2 xmlns:tns1=http://www.onvif.org/ver10/topics">tns1:Device/tns1:Trigger/tns1:Relay</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-12-14T15:54:44Z" PropertyOperation="Initialized"> <tt:Source> <tt:SimpleItem Name="RelayToken" Value="Relay-1"/> </tt:Source> <tt:Data> <tt:SimpleItem Name="LogicalState" Value="inactive"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	Applicable device: Camera,NVR
Digitial Input	<wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet xmlns:wsnt=http://docs.oasis-open.org/wsn/b-2 xmlns:tns1=http://www.onvif.org/ver10/topics">tns1:Device/tns1:Trigger/tns1:DigitalInput</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2016-12-14T15:54:44Z" PropertyOperation="Initialized"> <tt:Source> <tt:SimpleItem Name="InputToken" Value="DigitalInput-1"/> </tt:Source> <tt:Data> <tt:SimpleItem Name="LogicalState" Value="false"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage>	Applicable device: Camera, NVR

Event Type	Metadata Format	Comments
ObjectDetection	<tt:Event> <wsnt:NotificationMessage> <wsnt:Topic Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet">tns1:RuleEngine/ObjectDetection/Object</wsnt:Topic> <wsnt:Message> <tt:Message UtcTime="2019-11-14T05:50:51.290Z" PropertyOperation="Changed"> <tt:Source> <tt:SimpleItem Name="VideoSource" Value="VideoSourceToken-0"/> <tt:SimpleItem Name="RuleName" Value="ObjectDetectionRule-1"/> </tt:Source> <tt:Data> <tt:SimpleItem Name="ClassTypes" Value="Person Vehicle"/> </tt:Data> </tt:Message> </wsnt:Message> </wsnt:NotificationMessage> </tt:Event>	

6 Annex B: Frame Metadata Sample

6.1.1 Non-AI-supported models:

Non-AI-supported models only support object information with bounding box.

Here the boundingbox follows the onvif spec and we can get the normalized bounding box with the help of translate and scale.

```
<tt:MetadataStream>
    <tt:VideoAnalytics>
            <tt:Frame UtcTime="2020-07-01T18:28:00.146Z">
                    <tt:Transformation>
                            <tt:Translate x="-1.0" y="1.0"/>
                            <tt:Scale x="0.000521" y="-0.000926"/>
                    </tt:Transformation>
                    <tt:Object ObjectId="489">
                            <tt:Appearance>
                                    <tt:Shape>
                                            <tt:BoundingBox left="2990.0" top="1159.0"
right="3751.0" bottom="2096.0"/>
                                            <tt:CenterOfGravity x="3370.5"
y="1627.5"/>
                                    </tt:Shape>
                            </tt:Appearance>
                    </tt:Object>
            </tt:Frame>
    </tt:VideoAnalytics>
</tt:MetadataStream>
```

6.1.2 AI-supported Models

Those marked in Blue are custom extensions for our camera that we defined:

- **Parent :** Describes the relationship between objects. e.g. Vehicle and Number Plate (Vehicle object is parent to Number plate), Human and Face (Human is parent to the Face)
- **ImageRef:** Temporary image stored in the camera or central server for the client to retrieve
- **Possible ClassTypes:** Human, Face, LicensePlate, Vehicle, Head, and Unknown

See the below section to get the class type information along with the confidence level.

```
<tt:Class>
<tt:Type Likelihood="0.8">LicensePlate</tt:Type>
</tt:Class>
```

The table of supported attributes

Note

Those marked in RED are not supported in the current release and have fixed values as marked in the table below.

	Objects	Attributes	Supported attributes items
Attributes	Person	Gender	Female, Male
		Upper (Color)	Black, Gray, White, Red, Orange, Yellow, Green, Blue, Purple (up to 2 colors at the same time)
		Lower (Color)	
		Upper (Clothing)	Long, Short (always Long)
		Lower (Clothing)	Long, Short (always Long)
		Hat	Wearing a Hat or Not (always False)
		Bag	Bag (If a Bag is detected)
	Vehicle	Type	Car (Sedan/SUV/Van…etc), Bus, Truck, Motorcycle, Bicycle
		Color	Black, Gray, White, Red, Orange, Yellow, Green, Blue, Purple (up to 2 colors at the same time)
	Face	Gender	Female, Male
		Age	Young (0-19), Adult (20-44), Middle-aged (45-64), Senior (65-)
		Hat	Wearing a Hat or Not (always False)
		Glasses	Wearing Glasses or Not
	Licenseplate		

Sample Meta Frame

Onvif Metadata spec is used to notify the object-related attributes. Those marked in **BLUE** are custom extensions to ONVIF metadata spec.

```
<tt:MetadataStream xmlns:tt="http://www.onvif.org/ver10/schema"
xmlns:fc="http://www.onvif.org/ver20/analytics/humanface"
xmlns:bd="http://www.onvif.org/ver20/analytics/humanbody">
<tt:VideoAnalytics>
<tt:Frame UtcTime="2019-05-15T12:24:57.321">
<tt:Transformation>
<tt:Translate x="-1.0" y="1.0" />
<tt:Scale x="0.000781" y="-0.001042" />
</tt:Transformation>
<tt:Object ObjectId="15" Parent="12" >
<tt:Appearance>
<tt:Shape>
<tt:BoundingBox left="15.0" top="141.0" right="51.0" bottom="291.0" />
```

```
<tt:CenterOfGravity x="31.0" y="218.0" />
</tt:Shape>
<tt:Color>
<tt:ColorCluster>
<tt:Color X="58" Y="105" Z="212" />
<tt:Covariance XX="7.2" YY="6" ZZ="3" />
<tt:Weight>90</tt:Weight>
<tt:ColorString>WHITE</tt:ColorString>
</tt:ColorCluster>
<tt:ColorCluster>
<tt:Color X="165" Y="44" Z="139" />
<tt:Covariance XX="4" YY="4" ZZ="4" />
<tt:Weight>5</tt:Weight>
<tt:ColorString>BLUE</tt:ColorString>
</tt:ColorCluster>
</tt:Color>
<tt:Class>
<tt:Type Likelihood="0.8">LicensePlate</tt:Type>
</tt:Class>
<tt:VehicleInfo>
<tt:Type Likelihood="0.8"> car </tt:Type>
</tt:VehicleInfo>
<tt:HumanFace>
<fc:Gender> Male </fc:Gender>
<fc:AgeType>Adult</fc:AgeType>
<fc:Accessory>
<fc:Opticals>
<fc:Wear>true</fc:Wear>
</fc:Opticals>
<fc:Hat>
<fc:Wear>false</fc:Wear>
</fc:Hat>
</fc:Accessory>
</tt:HumanFace>
<tt:HumanBody>
<bd:Gender>Male</bd:Gender>
<bd:Clothing>
<bd:Hat>
<bd:Wear>false</bd:Wear>
</bd:Hat>
<bd:Tops>
<tt:Color>
<tt:ColorCluster>
<tt:Color X="58" Y="105" Z="212" />
<tt:Covariance XX="7.2" YY="6" ZZ="3" />
<tt:Weight>90</tt:Weight>
<tt:ColorString>WHITE</tt:ColorString>
</tt:ColorCluster>
<tt:ColorCluster>
<tt:Color X="165" Y="44" Z="139" />
```

```
<tt:Covariance XX="4" YY="4" ZZ="4" />
<tt:Weight>5</tt:Weight>
<tt:ColorString>BLUE</tt:ColorString>
</tt:ColorCluster>
</tt:Color>
<bd:Length>Long</bd:Length>
</bd:Tops>
<bd:Bottoms>
<tt:Color>
<tt:ColorCluster>
<tt:Color X="58" Y="105" Z="212" />
<tt:Covariance XX="7.2" YY="6" ZZ="3" />
<tt:Weight>90</tt:Weight>
<tt:ColorString>WHITE</tt:ColorString>
</tt:ColorCluster>
<tt:ColorCluster>
<tt:Color X="165" Y="44" Z="139" />
<tt:Covariance XX="4" YY="4" ZZ="4" />
<tt:Weight>5</tt:Weight>
<tt:ColorString>BLUE</tt:ColorString>
</tt:ColorCluster>
</tt:Color>
<bd:Length>Long</bd:Length>
</bd:Bottoms>
</bd:Clothing>
<bd:Belonging>
<bd:Bag>
<bd:Category>Bag</bd:Category>
</bd:Bag>
</bd:Belonging>
</tt:HumanBody >
<tt:ImageRef>
http://192.168.75.150/download/objectid_1_1548728068_100.jpg
</tt:ImageRef>
<tt:ImageRefShape>
<tt:BoundingBox left="15.0" top="141.0" right="51.0" bottom="291.0" />
<tt:CenterOfGravity x="31.0" y="218.0" />
</tt:ImageRefShape>
</tt:Appearance>
</tt:Object>
</tt:Frame>
</tt:VideoAnalytics>
</tt:MetadataStream>
```

ImageRef

A URL can also have a relative address

```
../download/objected_1_23323333_100.jpg
```

6.1.3 AI NVR Metadata Samples

Face Recognition Event

Face recognition event is notified in the ONVIF format as below:

```
<wsnt:NotificationMessage>
    <wsnt:Topic
Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet">tns1:RuleEngine/R
ecognition/Face</wsnt:Topic>
    <wsnt:Message>
            <tt:Message UtcTime="2020-07-09T10:35:31Z" PropertyOperation="Changed">
                    <tt:Source>
                            <tt:SimpleItem Name="VideoSourceConfiguration"
Value="Source_CH-3"/>
                            <tt:SimpleItem Name="VideoAnalyticsConfiguration"
Value="VideoAnalyticsConf_CH-3"/>
                            <tt:SimpleItem Name="RuleName"
Value="FaceRecognitonRule_CH-3"/>
                    </tt:Source>
                    <tt:Data>
                            <tt:SimpleItem Name="Likelihood" Value="0.943513"/>
                            <tt:SimpleItem Name="ImageUri" Value="/stw-
cgi/ai.cgi?msubmenu=imageget&amp;action=view&amp;type=bestshotBuffer&amp;ID=0000000000
000000_37_1_2_2020-07-09T10&#58;35&#58;31Z_21"/>
                            <tt:SimpleItem Name="ImageCaptureTimeUTC" Value="2020-07-
09T10:35:31Z"/>
                            <tt:SimpleItem Name="EnrollmentID" Value="그룹 1/iii"/>
                            <tt:SimpleItem Name="RefImageUri" Value="/stw-
cgi/ai.cgi?msubmenu=imageget&amp;action=view&amp;type=imagelibrary&amp;ID=face_1001_78
"/>
                            <tt:ElementItem Name="BoundingBox">
                                    <tt:Rectangle left="-0.153425" top="-0.538889"
right="0.168533" bottom="0.215741" />
                            </tt:ElementItem">
                    </tt:Data>
            </tt:Message>
    </wsnt:Message>
</wsnt:NotificationMessage>
```

Face Detection Event

```
<wsnt:NotificationMessage>
    <wsnt:Topic
Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet">tns1:VideoSource/
DynamicEvent</wsnt:Topic>
    <wsnt:Message>
            <tt:Message UtcTime="2020-07-09T10:35:32Z">
                    <tt:Source>
                            <tt:SimpleItem Name="Source" Value="3"/>
                            <tt:SimpleItem Name="EventName"
Value="ObjectDetection.Face"/>
                    </tt:Source>
                    <tt:Data>
                            <tt:SimpleItem Name="State" Value="true" />
                    </tt:Data>
```

```
            </tt:Message>
    </wsnt:Message>
</wsnt:NotificationMessage>
```

Face Metadata

Face metadata is notified in the ONVIF metadata format as below

```
<?xml version="1.0" encoding="UTF-8" ?>
<tt:MetadataStream xmlns:tt="http://www.onvif.org/ver10/schema"
xmlns:ttr="https://www.onvif.org/ver20/analytics/radiometry"
xmlns:wsnt="http://docs.oasis-open.org/wsn/b-2"
xmlns:tns1="http://www.onvif.org/ver10/topics"
xmlns:tnssamsung="http://www.samsungcctv.com/2011/event/topics"
xmlns:fc="http://www.onvif.org/ver20/analytics/humanface"
xmlns:bd="http://www.onvif.org/ver20/analytics/humanbody">
    <tt:VideoAnalytics>
            <tt:Frame UtcTime="2020-07-09T10:09:33Z">
                    <tt:Transformation>
                            <tt:Translate x="-1.0" y="1.0" />
                            <tt:Scale x="0.000521" y="-0.000926" />
                    </tt:Transformation>
                    <tt:Object ObjectId="357701">
                            <tt:Appearance>
                                    <tt:Shape>
                                            <tt:BoundingBox left="1503.0" top="570.0"
right="2095.0" bottom="1298.0" />
                                            <tt:CenterOfGravity x="1799.0" y="934.0"
/>
                                    </tt:Shape>
                                    <tt:Class>
                                            <tt:Type Likelihood="99.8">Head</tt:Type>
                                    </tt:Class>
                            </tt:Appearance>
                    </tt:Object>
                    <tt:Object ObjectId="357702" Parent="357703">
                            <tt:Appearance>
                                    <tt:Shape>
                                            <tt:BoundingBox left="1566.0" top="710.0"
right="2044.0" bottom="1270.0" />
                                            <tt:CenterOfGravity x="1805.0" y="990.0"
/>
                                    </tt:Shape>
                                    <tt:Class>
                                            <tt:Type Likelihood="99.9">Face</tt:Type>
                                    </tt:Class>
                                    <fc:HumanFace>
                                            <fc:Gender>Male</fc:Gender>
                                            <fc:AgeType>Adult</fc:AgeType>
                                            <fc:Accessory>
                                                    <fc:Opticals>
                                                            <fc:Wear>False</fc:Wear>
                                                    </fc:Opticals>
                                                    <fc:Hat>
```

```
                                                        <fc:Wear>False</fc:Wear>
                                                    </fc:Hat>
                                                </fc:Accessory>
                                            </fc:HumanFace>
                                            <tt:ImageRef UtcTime="2020-07-
09T10:09:33Z">0000000000000000_37_1_2_2020-07-09T10:09:33Z_357702</tt:ImageRef>
                                            <tt:ImageRefShape>
                                                    <tt:BoundingBox left="1447.0" top="486.0"
right="2163.0" bottom="1326.0" />
                                                    <tt:CenterOfGravity x="1805.0" y="906.0"
/>
                                            </tt:ImageRefShape>
                                    </tt:Appearance>
                            </tt:Object>
                    </tt:Frame>
            </tt:VideoAnalytics>
</tt:MetadataStream>
```

License Plate Detection Event

```
<wsnt:NotificationMessage>
    <wsnt:Topic
Dialect="http://www.onvif.org/ver10/tev/topicExpression/ConcreteSet">tns1:VideoSource/
DynamicEvent</wsnt:Topic>
    <wsnt:Message>
            <tt:Message UtcTime="2020-07-09T10:34:39Z">
                    <tt:Source>
                            <tt:SimpleItem Name="Source" Value="3"/>
                            <tt:SimpleItem Name="EventName"
Value="ObjectDetection.LicensePlate"/>
                    </tt:Source>
                    <tt:Data>
                            <tt:SimpleItem Name="State" Value="true" />
                    </tt:Data>
            </tt:Message>
    </wsnt:Message>
</wsnt:NotificationMessage>
```

LPR Metadata

LPR Metadata follows ONVIF metadata schema

```
<?xml version="1.0" encoding="UTF-8" ?>
<tt:MetadataStream xmlns:tt="http://www.onvif.org/ver10/schema"
xmlns:ttr="https://www.onvif.org/ver20/analytics/radiometry"
xmlns:wsnt="http://docs.oasis-open.org/wsn/b-2"
xmlns:tns1="http://www.onvif.org/ver10/topics"
xmlns:tnssamsung="http://www.samsungcctv.com/2011/event/topics"
xmlns:fc="http://www.onvif.org/ver20/analytics/humanface"
xmlns:bd="http://www.onvif.org/ver20/analytics/humanbody">
    <tt:VideoAnalytics>
            <tt:Frame UtcTime="2020-07-09T10:08:00Z">
                    <tt:Transformation>
                            <tt:Translate x="-1.0" y="1.0" />
                            <tt:Scale x="0.000521" y="-0.000926" />
                    </tt:Transformation>
```

```
                    <tt:Object ObjectId="357699">
                            <tt:Appearance>
                                    <tt:Shape>
                                            <tt:BoundingBox left="1998.0" top="628.0"
right="3323.0" bottom="1759.0" />
                                            <tt:CenterOfGravity x="2660.5" y="1193.5"
/>
                                    </tt:Shape>
                                    <tt:Class>
                                            <tt:Type
Likelihood="76.0">Vehicle</tt:Type>
                                    </tt:Class>
                            </tt:Appearance>
                    </tt:Object>
                    <tt:Object ObjectId="357700" Parent="357699">
                            <tt:Appearance>
                                    <tt:Shape>
                                            <tt:BoundingBox left="0.0" top="0.0"
right="0.0" bottom="0.0" />
                                            <tt:CenterOfGravity x="0.0" y="0.0" />
                                    </tt:Shape>
                                    <tt:Class>
                                            <tt:Type
Likelihood="58.5">LicensePlate</tt:Type>
                                    </tt:Class>
                                    <tt:ImageRef UtcTime="2020-07-
09T10:07:50Z">0000000000000000_37_4_2_2020-07-09T10:07:50Z_357700</tt:ImageRef>
                                    <tt:ImageRefShape>
                                            <tt:BoundingBox left="1212.0" top="1229.0"
right="1881.0" bottom="1549.0" />
                                            <tt:CenterOfGravity x="1546.5" y="1389.0"
/>
                                    </tt:ImageRefShape>
                                    <tt:LicensePlateInfo>
                                            <tt:PlateNumber
Likelihood="1">19N1004</tt:PlateNumber>
                                    </tt:LicensePlateInfo>
                            </tt:Appearance>
                    </tt:Object>
            </tt:Frame>
    </tt:VideoAnalytics>
</tt:MetadataStream>
```