

API documentation

[<< Back to UI](#)

Table of Contents

Authentication

JSON object definitions

Pipeline

Input Stream

Input Video

Input Audios

Input Captions

Input Metadata

Output Stream

Output Video

Output Audios

Output Captions

Output Metadata

Uploaded Logos

Pipeline State

Input Stream State

Elementary Streams

Output Stream State

Configuration of All Pipelines

List All Existing Pipelines

Replace All Pipelines

Configuration of a Single Pipeline

Create a New Pipeline

Get an Existing Pipeline

Modify an Existing Pipeline

Start an Existing Pipeline

Stop an Existing Pipeline

Remove an Existing Pipeline

Retrieving Pipeline State

Get Pipeline Runtime State

System

Version info

Get list of available network interfaces

Get list of available SDI devices

Get list of available NDI source devices

Perform reinstallation of the current version of the device

Retrieve state of reinstallation process

Perform factory reset of the device

Retrieve state of factory reset process

Perform restart of main service

Perform reboot of the machine

Perform shutdown of the machine

Errors

Error response

Authentication

Each API request must contain authorization header for basic access authentication.

Name	Description
Authorization	Basic authentication credentials in format Basic <base64> where <base64> is Base64 encoded string <username>:<password> . Example: Basic YWRtaW46cGFzc3dvcmQ= (admin:password)

JSON object definitions

Pipeline

JSON object containing configuration for single pipeline.

Path	Type	Description
version	String	Version of pipeline JSON schema. Current version is "0.16".
id	Number	Unique identifier of this pipeline.
name	String	Name of this pipeline displayed in UI.
runningState	String	Policy to restrict automatic pipeline loading after restart. Allowed values are "INACTIVE" or "ACTIVE" .
inputs	Array of Input Streams	List of configured input streams. See Input Stream.
outputs	Array of Output Streams	List of configured output streams. See Output Streams.
uploadedLogos	Array of Uploaded Logos	Configuration of input logos. See Uploaded Logos

Relation	Description
self	Link to this pipeline.
state	Link to current state of this pipeline.

Pipeline example:

```

{
  "version" : "0.16",
  "id" : 0,
  "name" : "Pipeline 1",
  "runningState" : "INACTIVE",
  "inputs" : [ {
    "id" : 0,
    "source" : {
      "streamType" : "MPEG_TS",
      "address" : {
        "url" : "srt://127.0.0.1:5001:1o",
        "srt" : {
          "mode" : "CALLER",
          "latency" : 50,
          "streamID" : "#!::u=admin,t=file,m=publish,r=results.csv",
          "passphrase" : "",
          "redundancy" : [ "srt://127.0.0.1:5002:1o" ]
        }
      },
      "complianceWith" : "AUTO",
      "addressPCR" : {
        "url" : "srt://0.0.0.0:5000:1o",
        "srt" : {
          "mode" : "LISTENER",
          "latency" : 50,
          "passphrase" : ""
        }
      }
    },
    "video" : {
      "format" : "J2K",
      "width" : 1920,
      "height" : 1080,
      "sampling" : "4:2:2",
      "depth" : 10,
      "scanRate" : "50",
      "scan" : "INTERLACED",
      "fieldOrder" : "TOP_FIELD_FIRST",
      "filters" : {
        "yOffset" : 16,
        "yGain" : 0.2,
        "rOffset" : 1,
        "rGain" : 0.01,
        "gOffset" : 2,
        "gGain" : 0.02,
        "bOffset" : 3,
        "bGain" : 0.03,
        "rgbClip" : true,
        "hue" : 4.5,
        "saturation" : 0.5
      }
    },
    "audio" : [ {
      "id" : 0,
      "pid" : 661,
      "format" : "AES3",
      "rate" : 48000,
      "channels" : 2,
      "filters" : {
        "volumeGain" : 2.5
      },
      "passthrough" : false
    } ],
    "captions" : [ {
      "id" : 0,
      "pid" : 662,
      "format" : "CEA_708_SMPTE_2038"
    } ],
    "metadata" : [ {

```

```

        "id" : 0,
        "pid" : 663,
        "format" : "UNKNOWN"
    } ]
} ],
"outputs" : [ {
    "streamType" : "MPEG_TS",
    "id" : 0,
    "name" : "Output Stream 1",
    "sink" : {
        "address" : {
            "url" : "srt://0.0.0.0:6001:lo",
            "srt" : {
                "mode" : "LISTENER",
                "overhead" : 20,
                "encryption" : "AES_256",
                "passphrase" : "0123456789",
                "redundancy" : [ "srt://127.0.0.1:5002:lo" ]
            }
        }
    },
    "ts" : {
        "service" : {
            "name" : "SERVICE",
            "providerName" : "PROVIDER"
        },
        "pcrStreamLocation" : "SEPARATE",
        "ebpLength" : 5,
        "ebpLengthUnit" : "SECONDS",
        "bitrate" : 11000000,
        "outputComplianceWith" : "STANDARD"
    },
    "video" : {
        "pid" : 670,
        "format" : "H264",
        "width" : 720,
        "height" : 576,
        "sampling" : "4:2:0",
        "depth" : 8,
        "scanRateType" : "SAME_AS_INPUT",
        "scan" : "INTERLACED",
        "fieldOrder" : "TOP_FIELD_FIRST",
        "h264" : {
            "coding" : "CABAC",
            "profile" : "HIGH",
            "gopSize" : 120,
            "bCount" : 0
        },
        "bitrate" : 8000000,
        "captions" : {
            "reference" : {
                "inputId" : 0,
                "id" : 0
            }
        },
        "crop" : {
            "fit" : "PAD",
            "from" : [ 0, 10 ],
            "to" : [ -1, 1070 ]
        },
        "logo" : {
            "id" : 0,
            "horizontalPosition" : 5,
            "verticalPosition" : 10,
            "horizontalScaling" : 150.0,
            "verticalScaling" : 200.0
        }
    },
    "audio" : [ {
        "id" : 0,

```

```

    "pid" : 671,
    "format" : "AAC_ADTS",
    "rate" : 48000,
    "name" : "Output audio 1",
    "bitrate" : 1000000,
    "channels" : 2,
    "references" : [ {
      "inputId" : 0,
      "id" : 0,
      "channel" : 0
    } ]
  } ],
  "captions" : [ {
    "id" : 0,
    "pid" : 672,
    "format" : "CEA_708_SMPTE_2038",
    "reference" : {
      "inputId" : 0,
      "id" : 0
    }
  } ],
  "metadata" : [ {
    "id" : 0,
    "pid" : 673,
    "format" : "UNKNOWN",
    "reference" : {
      "inputId" : 0,
      "id" : 0
    }
  } ]
} ],
"uploadedLogos" : [ {
  "id" : 0,
  "name" : "logo.png",
  "codestream" : "iVBORw0KGgoAAAANSUhEUgAAAAEAAAABCAIAAACQd1PeAAAAD01EQVQIHQEEAPv/AP///wX+Av4DfRnGAAAAAE1FTkSuQmCC"
} ],
"_links" : {
  "self" : {
    "href" : "https://127.0.0.1/api/pipeline/0"
  },
  "state" : {
    "href" : "https://127.0.0.1/api/pipeline/0/state"
  }
}
}
```

Input Stream

JSON object containing configuration of input stream.

Path	Type	Description
id	Number	Unique identifier of the input stream, referenced in output definition.
source.address	Object	Input stream source address.

Path	Type	Description
source.address.url	String	URL string value. It should be in format "rtp://[<mc-src-ip-address>@]<ip-address>:<port>:<interface-id>" for RTP/UDP stream, "udp://[<mc-src-ip-address>@]<ip-address>:<port>:<interface-id>" for UDP stream, "srt://<ip-address>:<port>:<interface-id>" for SRT stream, "hls://<http https url>" for HLS stream, "sdi://<sdi-device-id>:<port-index>" for SDI stream, "ndi://<ndi-name>" for NDI stream or "file://<file>" for transcoder system local file. The <interface-id> should be the identifier of one of the available network interfaces. The <sdi-device-id> should be the identifier of one of the available SDI devices. Examples: "rtp://127.0.0.1:5000:lo", "udp://127.0.0.1:5001:lo", "sdi://aja-sdi-0:0" or "file:///tmp/input.ts".
source.address.srt	Object	Specific information for SRT protocol.
source.address.srt.mode	String	Mode of SRT connection. Allowed values are "CALLER" or "LISTENER".
source.address.srt.latency	Integer	Buffer time to cover delivering and possible retransmitting of packets in msec. Allowed values [10, 2000].
source.address.srt.streamID	String	Stream ID is type of information that can be interchanged when a connection is being established. Can be used in a caller-listener connection layout. Allowed string has printable character with length: [0-512] set on the caller side. To disable this functionality leave this field empty.
source.address.srt.passphrase	String	Passphrase for encrypted SRT connection. Allowed phrase has printable character with length: [10-79]. To disable encryption leave this field empty.
source.address.srt.redundancy	Array	Optional list of URL string values representing redundant paths for SRT caller.
source.address.ndi	Object	Specific information for NDI protocol.
source.address.ndi.ndiGroup	String	Optional group name of NDI.
source.address.hls	Object	Specific information for HLS protocol.
source.address.hls.bufferSize	Integer	Optional size of buffer for HLS segments (in seconds). Decoding starts when the buffer is filled. Possible values are [0-999]. For input address only.

Path	Type	Description
<code>source.streamType</code>	String	Type of input stream. Allowed values are "MPEG_TS" , "SDI" , "NDI" or "HLS" .
<code>source.complianceWith</code>	String	Shall be present when streamType is "MPEG_TS" . Allowed values are "AUTO" (to allow any auto-detectable stream) or "EVERTZ" (to allow only Evertz stream) or "MEDIALINKS" (to allow only MediaLinks stream).
<code>source.addressPCR</code>	Object	Optionally can be present when streamType is "MPEG_TS" . Input stream to receive PCR from.
<code>source.addressPCR.url</code>	String	It should be in format "rtp://[<mc-src-ip-address>@]<ip-address>:<port>:<interface-id>" for RTP/UDP stream, "udp://[<mc-src-ip-address>@]<ip-address>:<port>:<interface-id>" for UDP stream, "srt://<ip-address>:<port>:<interface-id>" for SRT stream. The <interface-id> should be the identifier of one of the available network interfaces. Examples: "rtp://127.0.0.1:5000:lo" or "udp://127.0.0.1:5001:lo" .
<code>source.addressPCR.srt</code>	Object	Specific information for SRT protocol.
<code>source.addressPCR.srt.mode</code>	String	Mode of SRT connection. Allowed values are "CALLER" or "LISTENER" .
<code>source.addressPCR.srt.latency</code>	Integer	Buffer time to cover delivering and possible retransmitting of packets in msec. Allowed values [10, 2000].
<code>source.addressPCR.srt.passphrase</code>	String	Passphrase for encrypted SRT connection. Allowed phrase has printable character with length: [10-79]. To disable encryption leave this field empty.
<code>video</code>	Input Video	Configuration of the input video. See Input Video.
<code>audio</code>	Array of Input Audios	Configuration of the input audio. See Input Audio.
<code>captions</code>	Array of Input Captions	Configuration of the input captions. See Input Captions.
<code>metadata</code>	Array of Input Metadata	Configuration of the input metadata. See Input Metadata.

Input stream example:

```

{
  "id" : 0,
  "source" : {
    "streamType" : "MPEG_TS",
    "address" : {
      "url" : "srt://127.0.0.1:5001:10",
      "srt" : {
        "mode" : "CALLER",
        "latency" : 50,
        "streamID" : "#!::u=admin,t=file,m=publish,r=results.csv",
        "passphrase" : "",
        "redundancy" : [ "srt://127.0.0.1:5002:10" ]
      }
    },
    "complianceWith" : "AUTO",
    "addressPCR" : {
      "url" : "srt://0.0.0.0:5000:10",
      "srt" : {
        "mode" : "LISTENER",
        "latency" : 50,
        "passphrase" : ""
      }
    }
  },
  "video" : {
    "format" : "J2K",
    "width" : 1920,
    "height" : 1080,
    "sampling" : "4:2:2",
    "depth" : 10,
    "scanRate" : "50",
    "scan" : "INTERLACED",
    "fieldOrder" : "TOP_FIELD_FIRST",
    "filters" : {
      "yOffset" : 16,
      "yGain" : 0.2,
      "rOffset" : 1,
      "rGain" : 0.01,
      "gOffset" : 2,
      "gGain" : 0.02,
      "bOffset" : 3,
      "bGain" : 0.03,
      "rgbClip" : true,
      "hue" : 4.5,
      "saturation" : 0.5
    }
  },
  "audio" : [ {
    "id" : 0,
    "pid" : 661,
    "format" : "AES3",
    "rate" : 48000,
    "channels" : 2,
    "filters" : {
      "volumeGain" : 2.5
    },
    "passthrough" : false
  } ],
  "captions" : [ {
    "id" : 0,
    "pid" : 662,
    "format" : "CEA_708_SMPTE_2038"
  } ],
  "metadata" : [ {
    "id" : 0,
    "pid" : 663,
    "format" : "UNKNOWN"
  } ]
}

```

Input Video

JSON object containing configuration of input video.

Path	Type	Description
format	String	Format of input video. Allowed values are "J2K" , "H262" , "H264" or "H265" .
width	Number	Video frame width.
height	Number	Video frame height.
sampling	String	Video frame subsampling. Allowed values are "4:2:2" , "4:2:0" or "4:4:4" .
depth	Number	Video frame samples bit-depth.
scanRate	String	Frame rate for progressive scan video (frames per second) or field rate for interlaced scan video (fields per second). String value should be in format "<value>/<factor>" or "<value>" . Examples: "24000/1001" or "24" .
scan	String	Allowed values are "PROGRESSIVE" (for progressive scan video) or "INTERLACED" (for interlaced scan video).
fieldOrder	String	Allowed values are "TOP_FIELD_FIRST" or "BOTTOM_FIELD_FIRST" .
filters	Object	Video filters to be applied to decoded video. Modifications in this object can be applied at runtime and thus it will not force the pipeline to be restarted.
filters.yOffset	Number	Y sample value to be added to all decoded sample values. Examples: 16 to add 16 to all samples in Y component, -8 to subtract 8 from all samples in Y component.
filters.yGain	Number	Ratio for Y color component to modify all decoded sample values. Examples: 0.2 to increase all samples in Y component by 20% , -0.1 to decrease all samples in Y component by 10% .
filters.rOffset	Number	R sample value to be added to all decoded sample values. Examples: 1 to add 1 to all samples in R component, -2 to subtract 2 from all samples in R component.

Path	Type	Description
<code>filters.rGain</code>	Number	Ratio for R color component to modify all decoded sample values. Examples: 0.01 to increase all samples in R component by 1% , -0.2 to decrease all samples in R component by 20% .
<code>filters.gOffset</code>	Number	G sample value to be added to all decoded sample values. Examples: 2 to add 2 to all samples in G component, -4 to subtract 4 from all samples in G component.
<code>filters.gGain</code>	Number	Ratio for G color component to modify all decoded sample values. Examples: 0.02 to increase all samples in G component by 2% , -0.3 to decrease all samples in G component by 30% .
<code>filters.bOffset</code>	Number	B sample value to be added to all decoded sample values. Examples: 3 to add 3 to all samples in B component, -8 to subtract 8 from all samples in B component.
<code>filters.bGain</code>	Number	Ratio for B color component to modify all decoded sample values. Examples: 0.03 to increase all samples in B component by 3% , -0.4 to decrease all samples in B component by 40% .
<code>filters.rgbClip</code>	Boolean	Specifies whether RGB clipping should take place. Disabled by default.
<code>filters.hue</code>	Number	Number of degrees to change the color hue. Examples: 4.5 to increase color hue by 4.5 degrees, -2.5 to decrease color hue by 2.5 degrees.
<code>filters.saturation</code>	Number	Ratio to change the color saturation. Examples: 0.5 to increase color saturation by 50% , -0.25 to decrease color saturation by 25% .

Input video example:

```

{
  "format" : "J2K",
  "width" : 1920,
  "height" : 1080,
  "sampling" : "4:2:2",
  "depth" : 10,
  "scanRate" : "50",
  "scan" : "INTERLACED",
  "fieldOrder" : "TOP_FIELD_FIRST",
  "filters" : {
    "yOffset" : 16,
    "yGain" : 0.2,
    "rOffset" : 1,
    "rGain" : 0.01,
    "gOffset" : 2,
    "gGain" : 0.02,
    "bOffset" : 3,
    "bGain" : 0.03,
    "rgbClip" : true,
    "hue" : 4.5,
    "saturation" : 0.5
  }
}

```

Input Audios

JSON array of input audios.

Path	Type	Description
[].id	Number	Unique identifier of input audio.
[].pid	Number	Elementary stream identifier.
[].format	String	Format of input audio. Allowed values are "AC3", "EAC3", "AES3", "AAC_ADTS", "AAC_LATM", "MPEG2" or "RAW_FLTP".
[].rate	Number	Audio sampling rate in Hz.
[].channels	Number	Number of audio channels.
[].filters	Object	Audio filters to be applied to decoded audio. Modifications in this object can be applied at runtime and thus it will not force the pipeline to be restarted.
[].filters.volumeGain	Number	Ratio to change the audio volume. Examples: 0.5 to increase audio volume by 50% , -0.25 to decrease audio volume by 25% .
[].passthrough	Boolean	Specifies that audio is sent pass-through (if possible).

Input audios example:

```
[ {
  "id" : 0,
  "pid" : 661,
  "format" : "AES3",
  "rate" : 48000,
  "channels" : 2,
  "filters" : {
    "volumeGain" : 2.5
  },
  "passthrough" : false
} ]
```

Input Captions

JSON array of input captions.

Path	Type	Description
[].id	Number	Unique identifier of input captions.
[].pid	Number	Elementary stream identifier.
[].format	String	Format of input captions. Allowed values are "CEA_608_SMPTE_2038" , "CEA_708_SMPTE_2038" , "CEA_608_SDI" and "CEA_708_SDI" .

Input captions example:

```
[ {
  "id" : 0,
  "pid" : 662,
  "format" : "CEA_708_SMPTE_2038"
} ]
```

Input Metadata

JSON array of input metadata.

Path	Type	Description
[].id	Number	Unique identifier of input metadata.
[].pid	Number	Elementary stream identifier.
[].format	String	Format of input metadata. Allowed values are "UNKNOWN".

Input metadata example:

```
[ {
  "id" : 0,
  "pid" : 663,
  "format" : "UNKNOWN"
} ]
```

Output Stream

JSON object containing configuration of output stream.

Path	Type	Description
id	Number	Unique identifier of output stream.
name	String	Name of this output stream displayed in UI.
streamType	String	Type of output stream. Allowed values are "MPEG_TS" or "RTMP" .
sink.address	Array Object	Output stream destination address(es).
sink.address.srt	Object	Specific information for SRT protocol.
sink.address.url	String	URL string value. It should be in format "rtp://<ip-address>:<port>:<interface-id>" for RTP/UDP stream, "udp://<ip-address>:<port>:<interface-id>" for UDP stream, "srt://<ip-address-or-web-url>:<port>:<interface-id>" for SRT stream, "rtmp(s)://<domain-name/ip-address>(:<port>)/path/streaming-key" for RTMP(S) stream, "sdi://<sdi-device-id>:<port-index>" for SDI stream , "ndi://<ndi-name>" for NDI stream or "file://<file>" for transcoder system local file. The <interface-id> should be the identifier of one of the available network interfaces. The <sdi-device-id> should be the identifier of one of the available SDI devices. Examples: "rtp://127.0.0.1:5000:lo" , "udp://127.0.0.1:5001:lo" , "rtmp[s]://[user:password@example.com:1935/live/abc-123]" , "sdi://aja-sdi-0:0" or "file:///tmp/input.ts" .
sink.address.srt.mode	String	Mode of SRT connection. Allowed values are "CALLER" or "LISTENER" .
sink.address.srt.overhead	Integer	Bandwidth overhead above output rate in percents. Allowed values: [5, 100].
sink.address.srt.encryption	String	Settings of key length for AES encryption. Allowed values are "AES_DEFAULT" , "AES_128" , "AES_192" or "AES_256" .
sink.address.srt.passphrase	String	Passphrase for encrypted SRT connection. Allowed phrase has printable character with length: [10-79]. To disable encryption leave this field empty.
sink.address.srt.redundancy	Array	Optional list of URL string values representing redundant paths for SRT caller.
sink.address.ndi	Object	Specific information for NDI protocol.

Path	Type	Description
<code>sink.address.ndi.ndiGroup</code>	String	Optional group name of NDI.
<code>sink.address.hls</code>	Object	Specific information for HLS protocol.
<code>sink.address.hls.segmentLength</code>	Integer	Specify duration of the HLS segments (in seconds). Possible values are [1-300]. For output address only. Default is 6.
<code>sink.address.hls.segmentCount</code>	Integer	Specify how many HLS segments are playable in history. Possible values are [3-600]. For output address only. Default is 10.
<code>sink.address.hls.deleteThreshold</code>	Integer	Specify how many HLS segments are available after playlist dereference. Possible values are [1-300]. For output address only. Default is 1 (nothing available).
<code>ts</code>	Object	Specific information for MPEG_TS output stream type.
<code>ts.service</code>	Object	Information about service to be embedded into SDT (Service Description Table) inside MPEG-TS.
<code>ts.service.name</code>	String	Name of the service to be embedded into SDT (Service Description Table) inside MPEG-TS.
<code>ts.service.providerName</code>	String	Name of the service provider to be embedded into SDT (Service Description Table) inside MPEG-TS.
<code>ts.bitrate</code>	Number	Maximum total bitrate of output stream in bits per second.
<code>ts.pcrStreamLocation</code>	String	Placement of stream with PCR.
<code>ts.ebpLength</code>	Number	Encoder boundary point in seconds or multiples of GOP.
<code>ts.ebpLengthUnit</code>	String	Unit of EBP length. Can be in seconds or in multiples of GOP. Allowed values are "SECONDS" or "GOP" .
<code>ts.outputComplianceWith</code>	String	MPEG-TS standard or Evertz compliance. Allowed values are "STANDARD" or "EVERTZ" .
<code>video</code>	Output Video	Configuration of output video. See Output Video.
<code>audio</code>	Array of Output Audio	Configuration of output audio. See Output Audio.
<code>captions</code>	Array of Output Captions	Configuration of output captions. See Output Captions.
<code>metadata</code>	Array of Output Metadata	Configuration of output metadata. See Output Metadata.

Output stream example:

```
{
  "streamType" : "MPEG_TS",
  "id" : 0,
  "name" : "Output Stream 1",
  "sink" : {
    "address" : {
      "url" : "srt://0.0.0.0:6001:10",
      "srt" : {
        "mode" : "LISTENER",
        "overhead" : 20,
        "encryption" : "AES_256",
        "passphrase" : "0123456789",
        "redundancy" : [ "srt://127.0.0.1:5002:10" ]
      }
    }
  },
  "ts" : {
    "service" : {
      "name" : "SERVICE",
      "providerName" : "PROVIDER"
    },
    "pcrStreamLocation" : "SEPARATE",
    "ebpLength" : 5,
    "ebpLengthUnit" : "SECONDS",
    "bitrate" : 11000000,
    "outputComplianceWith" : "STANDARD"
  },
  "video" : {
    "pid" : 670,
    "format" : "H264",
    "width" : 720,
    "height" : 576,
    "sampling" : "4:2:0",
    "depth" : 8,
    "scanRateType" : "SAME_AS_INPUT",
    "scan" : "INTERLACED",
    "fieldOrder" : "TOP_FIELD_FIRST",
    "h264" : {
      "coding" : "CABAC",
      "profile" : "HIGH",
      "gopSize" : 120,
      "bCount" : 0
    },
    "bitrate" : 8000000,
    "captions" : {
      "reference" : {
        "inputId" : 0,
        "id" : 0
      }
    },
    "crop" : {
      "fit" : "PAD",
      "from" : [ 0, 10 ],
      "to" : [ -1, 1070 ]
    },
    "logo" : {
      "id" : 0,
      "horizontalPosition" : 5,
      "verticalPosition" : 10,
      "horizontalScaling" : 150.0,
      "verticalScaling" : 200.0
    }
  },
  "audio" : [ {
    "id" : 0,
    "pid" : 671,
    "format" : "AAC_ADTS",
    "rate" : 48000,
    "name" : "Output audio 1",
```

```
"bitrate" : 1000000,  
"channels" : 2,  
"references" : [ {  
  "inputId" : 0,  
  "id" : 0,  
  "channel" : 0  
} ]  
} ],  
"captions" : [ {  
  "id" : 0,  
  "pid" : 672,  
  "format" : "CEA_708_SMPTE_2038",  
  "reference" : {  
    "inputId" : 0,  
    "id" : 0  
  }  
} ],  
"metadata" : [ {  
  "id" : 0,  
  "pid" : 673,  
  "format" : "UNKNOWN",  
  "reference" : {  
    "inputId" : 0,  
    "id" : 0  
  }  
} ]  
}
```

Output Video

JSON object containing configuration of output video.

Path	Type	Description
pid	Number	Elementary stream identifier.
format	String	Format of output video. Allowed values are "J2K" , "H262" , "H264" or "H265" .
width	Number	Video frame width.
height	Number	Video frame height.
crop	Object	Configuration of cropping and/or padding.

Path	Type	Description
crop.fit	String	Allowed values are "SCALE" , "CROP" or "PAD" . Use "SCALE" to resize configured input frame size to configured output frame size and change aspect ratio when it differs. Use "CROP" to resize configured input frame size to configured output frame size but keep the input frame aspect ratio. The input will be automatically horizontally or vertically cropped. Use "PAD" to resize configured input frame size to configured output frame size but keep the input frame aspect ratio. The input will be automatically expanded with horizontal or vertical black bars.
crop.from	Array	Array with X and Y offset in input video frame which specifies the first left/top most input pixel to be included in output frame. It can point outside of input frame area to create black bars. Examples: [10,20] to crop 10 pixels from left and 20 pixels from top, [-10,-20] to create 10 pixels wide black bar at left and 20 pixels high black bar at top in input video frame.
crop.to	Array	Array with X and Y offset in input video frame which specifies the first right/bottom most input pixel to not be included in output frame. It can point outside of input frame area to create black bars. Examples: [1910,1060] to crop 10 pixels from right and 20 pixels from bottom in 1920x1080 input video frame, [1930,1100] to create 10 pixels wide black bar at right and 20 pixels high black bar at bottom in 1920x1080 input video frame.
logo	Object	Configuration of logo placement.
logo.id	Number	ID of the logo present in uploadedLogos section.
logo.horizontalPosition	Number	Horizontal position of the logo in number of pixels from left side.
logo.verticalPosition	Number	Vertical position of the logo in number of pixels from top side.
logo.horizontalScaling	Number	Horizontal scaling of the logo in percents of original logo width.
logo.verticalScaling	Number	Vertical scaling of the logo in percents of original logo height.

Path	Type	Description
sampling	String	Video frame subsampling. Allowed values are "4:2:2" , "4:2:0" or "4:4:4" .
depth	Number	Video frame samples bit-depth.
scanRateType	String	Scan rate type can be set to SAME_AS_INPUT, HALF_THE_INPUT and CONVERT_TO. I takes the input scan rate and sets the output scan rate based on this option.
scan	String	Allowed values are "PROGRESSIVE" (for progressive scan video) or "INTERLACED" (for interlaced scan video).
fieldOrder	String	Allowed values are "TOP_FIELD_FIRST" or "BOTTOM_FIELD_FIRST" .
bitrate	Number	Maximum bitrate of output video in bits per second. Value "0" enables video passthrough (then output video parameters have to exactly match input video parameters).
captions	Object	Identifier of input captions to be wrapped inside output video.
captions.reference	Object	Referenced input captions.
captions.reference.inputId	Number	Identifier of referenced input stream with captions.
captions.reference.id	Number	Identifier of referenced input captions.
h262	Object	Encoding settings for H.262 video. Valid only when format is "H262" .
h262.profile	String	Allowed values are "HIGH" , "MAIN" or "SIMPLE" .
h262.gopSize	Number	GOP size in number of frames. Allowed values are 12 - 300 .
h262.bCount	Number	Number of B frames. Allowed values are 0 - 4 .
h264	Object	Encoding settings for H.264 video. Valid only when format is "H264" .
h264.coding	String	Allowed values are "CABAC" or "CAVLC" .
h264.profile	String	Allowed values are "HIGH" , "MAIN" or "BASELINE" .

Path	Type	Description
h264.gopSize	Number	GOP size in number of frames. Allowed values are 25 - 300 .
h264.bCount	Number	Number of B frames. Allowed values are 0 - 4 .

Output video example:

```
{
  "pid" : 670,
  "format" : "H264",
  "width" : 720,
  "height" : 576,
  "sampling" : "4:2:0",
  "depth" : 8,
  "scanRateType" : "SAME_AS_INPUT",
  "scan" : "INTERLACED",
  "fieldOrder" : "TOP_FIELD_FIRST",
  "h264" : {
    "coding" : "CABAC",
    "profile" : "HIGH",
    "gopSize" : 120,
    "bCount" : 0
  },
  "bitrate" : 8000000,
  "captions" : {
    "reference" : {
      "inputId" : 0,
      "id" : 0
    }
  },
  "crop" : {
    "fit" : "PAD",
    "from" : [ 0, 10 ],
    "to" : [ -1, 1070 ]
  },
  "logo" : {
    "id" : 0,
    "horizontalPosition" : 5,
    "verticalPosition" : 10,
    "horizontalScaling" : 150.0,
    "verticalScaling" : 200.0
  }
}
```

Output Audios

JSON array of output audios.

Path	Type	Description
[]	Array	List of output audios.
[][.id]	Number	Unique identifier of output audio.
[][.name]	String	Name of this output audio displayed in UI.
[][.pid]	Number	Elementary stream identifier.

Path	Type	Description
<code>[] .format</code>	String	Format of output audio. Allowed values are "AC3" , "AES3" , "AAC_ADTS" , "AAC_LATM" , "MPEG2" or "RAW_FLTP" .
<code>[] .rate</code>	Number	Audio sampling rate in Hz.
<code>[] .references[]</code>	Array	Array of output channels referencing channels from input audio.
<code>[] .references[] .inputId</code>	Number	Identifier of referenced input stream with audio.
<code>[] .references[] .id</code>	Number	Identifier of referenced input audio.
<code>[] .references[] .channel</code>	Number	Index of channel from referenced input audio.
<code>[] .channels</code>	Number	Number of output audio channels which shall be down-mixed/up-mixed from the referenced input channels. Omit the field when down-mixing/up-mixing shall not be performed or use 2 for stereo, 6 for 5.1 and 8 for 7.1.
<code>[] .bitrate</code>	Number	Maximum bitrate of output audio in bits per second.

Output audios example:

```
[ {
  "id" : 0,
  "pid" : 671,
  "format" : "AAC_ADTS",
  "rate" : 48000,
  "name" : "Output audio 1",
  "bitrate" : 1000000,
  "channels" : 2,
  "references" : [ {
    "inputId" : 0,
    "id" : 0,
    "channel" : 0
  } ]
} ]
```

Output Captions

JSON array of output captions.

Path	Type	Description
<code>[]</code>	Array	List of output captions.
<code>[] .id</code>	Number	Unique identifier of output captions.
<code>[] .pid</code>	Number	Elementary stream identifier.
<code>[] .format</code>	String	Format of output captions. Allowed values are "CEA_608_SMPTE_2038" , "CEA_708_SMPTE_2038" , "CEA_608_SDI" and "CEA_708_SDI" .

Path	Type	Description
[].reference	Object	Referenced input captions.
[].reference.inputId	Number	Identifier of referenced input stream with captions.
[].reference.id	Number	Identifier of referenced input captions.

Output captions example:

```
[ {
  "id" : 0,
  "pid" : 672,
  "format" : "CEA_708_SMPTE_2038",
  "reference" : {
    "inputId" : 0,
    "id" : 0
  }
} ]
```

Output Metadata

JSON array of output metadata.

Path	Type	Description
[]	Array	List of output metadata.
[].id	Number	Unique identifier of output metadata.
[].pid	Number	Elementary stream identifier.
[].format	String	Format of output metadata. Allowed values are "UNKNOWN" .
[].reference	Object	Referenced input metadata.
[].reference.inputId	Number	Identifier of referenced input stream with metadata.
[].reference.id	Number	Identifier of referenced input metadata.

Output metadata example:

```
[ {
  "id" : 0,
  "pid" : 673,
  "format" : "UNKNOWN",
  "reference" : {
    "inputId" : 0,
    "id" : 0
  }
} ]
```

Uploaded Logos

JSON array of uploaded logos.

Path	Type	Description
id	Number	Unique identifier of uploaded logo.
name	String	Original file name of the logo.
codestream	String	PNG file content in Base64

Uploaded logos example:

```
{
  "id" : 0,
  "name" : "logo.png",
  "codestream" : "iVBORw0KGgoAAAANSUhEUgAAAAEAAAABCAIAAACQd1PeAAAAD01EQVQIHQEEAPv/AP///wX+Av4DfRnGAAAAAE1FTkSuQmCC"
}
```

Pipeline State

JSON object containing runtime state of a running pipeline.

Path	Type	Description
id	Number	Unique identifier of this pipeline.
status	String	Allowed values are "ERROR" , "WARNING" , "OK" or "UNKNOWN" . Values describes worst state of input stream part. In case of "UNKNOWN" It is equal to operationState: starting, stopping, restarting, not started. To distinguish state on different input stream see inputs.
operationState	String	Allowed values are "NOT_STARTED" , "STARTED" , "FAILED" (pipeline crashed), "STOPPING" (pipeline is being stopped), "STARTING" (pipeline is being started) or "RESTARTING" (pipeline is being restarted).
licenseStatus	String	Allowed values are "BEING_CHECKED" , "BEING_RETURNED" , "GRANTED" , "DENIED_BLOCKED" , "DENIED_INVALID" , "EMERGENCY_LICENSE_SERVER" (license servers connection problems), "EMERGENCY_TRANSCODER" (connection to license server broken) or "UNKNOWN" .
licenseExpirationDate	String	ISO 8601 date when license for pipeline expires on license server.
licenseRemainingTime	String	ISO 8601 time before licenseStatus changes automatically on transcoder.
name	String	Name of this pipeline.
uniqueId	String	Unique pipeline UUID. Randomly generated when a user creates the pipeline, removed with the pipeline. Can't be downloaded with pipeline preset. Survives stopping of pipeline and restart of service/machine.

Path	Type	Description
inputs	Array of Input Stream States	Array of Input Stream States. See Input Stream State
outputs	Array of Output Stream States	Array of Output Stream States. See Output Stream State

Relation	Description
self	Link to current state of this pipeline.
pipeline	Link to this pipeline.

Pipeline state example:

```

{
  "id" : 0,
  "status" : "ERROR",
  "operationState" : "STARTED",
  "licenseStatus" : "GRANTED",
  "licenseExpirationDate" : "1970-01-01T00:00:00Z",
  "licenseRemainingTime" : "00:00:00",
  "name" : "Pipeline 1",
  "uniqueId" : "577b54da-5dfe-4bea-add6-b689e8cd7eea",
  "inputs" : [ {
    "id" : 0,
    "status" : "ERROR",
    "name" : "rtp://0.0.0.0:5000:lo",
    "description" : "JPEG2000 1920x1080 4:4:4 10-bit",
    "elementaryStreams" : [ {
      "id" : 0,
      "pid" : 501,
      "type" : "UNKNOWN",
      "state" : "NEW",
      "elementaryStream" : {
        "messages" : [ ],
        "state" : "NEW",
        "pid" : 501,
        "id" : 0,
        "streamDescription" : "Unknown Stream (pid: 501)"
      }
    }
  ], {
    "id" : 0,
    "pid" : 502,
    "type" : "VIDEO",
    "state" : "NEW",
    "format" : "J2K",
    "width" : 1920,
    "height" : 1080,
    "depth" : 10,
    "sampling" : "4:2:2",
    "scanRate" : "60000/1001",
    "scan" : "INTERLACED",
    "fieldOrder" : "BOTTOM_FIELD_FIRST",
    "elementaryStream" : {
      "messages" : [ ],
      "state" : "NEW",
      "pid" : 502,
      "id" : 0,
      "format" : "J2K",
      "width" : 1920,
      "height" : 1080,
      "depth" : 10,
      "sampling" : "S422",
      "scanRate" : "60000/1001",
      "scan" : "INTERLACED",
      "fieldOrder" : "BOTTOM_FIELD_FIRST",
      "streamDescription" : "Video Stream (pid: 502, JPEG2000 1920x1080i (bottom-first) @59.94Hz 4:2:2 10-bit)"
    }
  }, {
    "messages" : [ ]
  }, {
    "id" : 0,
    "pid" : 503,
    "type" : "AUDIO",
    "state" : "NEW",
    "format" : "AES3",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 235000,
    "elementaryStream" : {
      "messages" : [ {
        "severity" : "ERROR",
        "message" : "${stream} wasn't detected in source stream."
      } ],
    }
  },

```

```
    "state" : "NEW",
    "pid" : 503,
    "id" : 0,
    "format" : "AES3",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 235000,
    "bitsPerSample" : 0,
    "streamDescription" : "Audio Stream (pid: 503, AES3 2-channels 48000 Hz 235 kb/s)"
  },
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "This audio stream wasn't detected in source stream."
  } ]
}, {
  "id" : 1,
  "pid" : 499,
  "type" : "AUDIO",
  "state" : "NEW",
  "format" : "AES3_DOLBY_E",
  "channelCount" : 2,
  "rate" : 48000,
  "bitrate" : 128000,
  "elementaryStream" : {
    "messages" : [ {
      "severity" : "ERROR",
      "message" : "${stream} wasn't detected in source stream."
    } ],
    "state" : "NEW",
    "pid" : 499,
    "id" : 1,
    "format" : "AES3_DOLBY_E",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 128000,
    "bitsPerSample" : 0,
    "streamDescription" : "Audio Stream (pid: 499, AES3_DOLBY_E 2-channels 48000 Hz 128 kb/s)"
  },
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "This audio stream wasn't detected in source stream."
  } ]
}, {
  "id" : 0,
  "pid" : 504,
  "type" : "CAPTIONS",
  "state" : "NEW",
  "format" : "CEA_708_SMPTE_2038",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 504,
    "id" : 0,
    "format" : "CEA_708_SMPTE_2038",
    "streamDescription" : "Captions Stream (pid: 504, CEA-708 in SMPTE-2038)"
  },
  "messages" : [ ]
}, {
  "id" : 0,
  "pid" : 505,
  "type" : "METADATA",
  "state" : "NEW",
  "format" : "UNKNOWN",
  "info" : "INFO1",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 505,
    "id" : 0,
    "format" : "UNKNOWN",
```

```

    "info" : "INF01",
    "streamDescription" : "Metadata Stream (pid: 505, Unknown, info: INF01)"
  },
  "messages" : [ ]
}, {
  "id" : 1,
  "pid" : 506,
  "type" : "METADATA",
  "state" : "NEW",
  "format" : "SMPTE_2038",
  "info" : "BLABLA",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 506,
    "id" : 1,
    "format" : "SMPTE_2038",
    "info" : "BLABLA",
    "streamDescription" : "Metadata Stream (pid: 506, SMPTE-2038, info: BLABLA)"
  },
  "messages" : [ ]
} ],
"decodedFps" : 0.0,
"decodingLatency" : 0.0,
"invalidFps" : 0.0,
"messages" : [ {
  "severity" : "ERROR",
  "message" : "rtp://0.0.0.0:5000:lo: input stream #0 error."
} ]
} ],
"outputs" : [ {
  "id" : 0,
  "uniqueId" : "ddc2b880-d32c-4bae-afd1-b4c5b2b75d19",
  "status" : "ERROR",
  "name" : "Output Stream 1",
  "sink" : "rtp://127.0.0.1:50001",
  "description" : "H.264 1920x1080 4:2:0 8-bit",
  "encodingLatency" : 0.0,
  "transcodedFps" : 0.0,
  "transcodingLatency" : 0.0,
  "droppedFps" : 0.0,
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "Output Stream 1: Not producing any output."
  } ],
  "latencyAddition" : 0
} ],
"_links" : {
  "self" : {
    "href" : "https://127.0.0.1/api/pipeline/0/state"
  },
  "pipeline" : {
    "href" : "https://127.0.0.1/api/pipeline/0"
  }
}
}
}

```

Input Stream State

JSON object containing input stream state.

Path	Type	Description
id	Number	Unique identifier of this input stream.
status	String	Allowed values are "ERROR", "WARNING", "OK" or "UNKNOWN".

Path	Type	Description
name	String	Name of this input stream.
description	String	Input stream description.
elementaryStreams	Array of Elementary Streams	Array of detected/configured elementary streams. See Elementary Stream.
decodedFps	Number	Number of decoded progressive frames/interlaced fields per second for this input stream (average over the last few seconds).
decodingLatency	Number	Decoding latency of progressive frame/interlaced field in milliseconds for this input stream (average over the last few seconds).
invalidFps	Number	Number of dropped progressive frames/interlaced fields per second for this input stream (average over the last few seconds).
messages	Array	Messages for this input stream.

Input Stream State example:

```

{
  "id" : 0,
  "status" : "ERROR",
  "name" : "rtp://0.0.0.0:5000:lo",
  "description" : "JPEG2000 1920x1080 4:4:4 10-bit",
  "elementaryStreams" : [ {
    "id" : 0,
    "pid" : 501,
    "type" : "UNKNOWN",
    "state" : "NEW",
    "elementaryStream" : {
      "messages" : [ ],
      "state" : "NEW",
      "pid" : 501,
      "id" : 0,
      "streamDescription" : "Unknown Stream (pid: 501)"
    }
  }
], {
  "id" : 0,
  "pid" : 502,
  "type" : "VIDEO",
  "state" : "NEW",
  "format" : "J2K",
  "width" : 1920,
  "height" : 1080,
  "depth" : 10,
  "sampling" : "4:2:2",
  "scanRate" : "60000/1001",
  "scan" : "INTERLACED",
  "fieldOrder" : "BOTTOM_FIELD_FIRST",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 502,
    "id" : 0,
    "format" : "J2K",
    "width" : 1920,
    "height" : 1080,
    "depth" : 10,
    "sampling" : "S422",
    "scanRate" : "60000/1001",
    "scan" : "INTERLACED",
    "fieldOrder" : "BOTTOM_FIELD_FIRST",
    "streamDescription" : "Video Stream (pid: 502, JPEG2000 1920x1080i (bottom-first) @59.94Hz 4:2:2 10-bit)"
  },
  "messages" : [ ]
}, {
  "id" : 0,
  "pid" : 503,
  "type" : "AUDIO",
  "state" : "NEW",
  "format" : "AES3",
  "channelCount" : 2,
  "rate" : 48000,
  "bitrate" : 235000,
  "elementaryStream" : {
    "messages" : [ {
      "severity" : "ERROR",
      "message" : "${stream} wasn't detected in source stream."
    } ],
    "state" : "NEW",
    "pid" : 503,
    "id" : 0,
    "format" : "AES3",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 235000,
    "bitsPerSample" : 0,
    "streamDescription" : "Audio Stream (pid: 503, AES3 2-channels 48000 Hz 235 kb/s)"
  }
}

```

```

    },
    "messages" : [ {
        "severity" : "ERROR",
        "message" : "This audio stream wasn't detected in source stream."
    } ]
}, {
    "id" : 1,
    "pid" : 499,
    "type" : "AUDIO",
    "state" : "NEW",
    "format" : "AES3_DOLBY_E",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 128000,
    "elementaryStream" : {
        "messages" : [ {
            "severity" : "ERROR",
            "message" : "${stream} wasn't detected in source stream."
        } ],
        "state" : "NEW",
        "pid" : 499,
        "id" : 1,
        "format" : "AES3_DOLBY_E",
        "channelCount" : 2,
        "rate" : 48000,
        "bitrate" : 128000,
        "bitsPerSample" : 0,
        "streamDescription" : "Audio Stream (pid: 499, AES3_DOLBY_E 2-channels 48000 Hz 128 kb/s)"
    },
    "messages" : [ {
        "severity" : "ERROR",
        "message" : "This audio stream wasn't detected in source stream."
    } ]
}, {
    "id" : 0,
    "pid" : 504,
    "type" : "CAPTIONS",
    "state" : "NEW",
    "format" : "CEA_708_SMPTE_2038",
    "elementaryStream" : {
        "messages" : [ ],
        "state" : "NEW",
        "pid" : 504,
        "id" : 0,
        "format" : "CEA_708_SMPTE_2038",
        "streamDescription" : "Captions Stream (pid: 504, CEA-708 in SMPTE-2038)"
    },
    "messages" : [ ]
}, {
    "id" : 0,
    "pid" : 505,
    "type" : "METADATA",
    "state" : "NEW",
    "format" : "UNKNOWN",
    "info" : "INFO1",
    "elementaryStream" : {
        "messages" : [ ],
        "state" : "NEW",
        "pid" : 505,
        "id" : 0,
        "format" : "UNKNOWN",
        "info" : "INFO1",
        "streamDescription" : "Metadata Stream (pid: 505, Unknown, info: INFO1)"
    },
    "messages" : [ ]
}, {
    "id" : 1,
    "pid" : 506,
    "type" : "METADATA",
    "state" : "NEW",

```

```
{
  "format" : "SMPTE_2038",
  "info" : "BLABLA",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 506,
    "id" : 1,
    "format" : "SMPTE_2038",
    "info" : "BLABLA",
    "streamDescription" : "Metadata Stream (pid: 506, SMPTE-2038, info: BLABLA)"
  },
  "messages" : [ ]
} ],
"decodedFps" : 0.0,
"decodingLatency" : 0.0,
"invalidFps" : 0.0,
"messages" : [ {
  "severity" : "ERROR",
  "message" : "rtp://0.0.0.0:5000:lo: input stream #0 error."
} ]
}
```

Elementary Streams

JSON array of elementary streams.

Path	Type	Description
[].id	Number	Unique identifier of this elementary stream in a set of elementary streams with the same type .
[].type	String	Type of elementary stream. Allowed values are "VIDEO" , "AUDIO" , "CAPTIONS" , "METADATA" or "UNKNOWN" .
[].state	String	Current state of elementary stream. Allowed values are "NEW" (newly detected elementary stream), "MATCHED" (configured elementary stream which was found) or "ERROR" (configured elementary stream which wasn't found).
[].pid	Number	Elementary stream identifier.
[].format	String	Format of video. Allowed values are "J2K" , "H262" , "H264" or "H265" .
[].width	Number	Video frame width.
[].height	Number	Video frame height.
[].depth	Number	Video frame samples bit-depth.
[].sampling	String	Video frame subsampling. Allowed values are "4:2:2" , "4:2:0" or "4:4:4" .

Path	Type	Description
[].scanRate	String	Frame rate for progressive scan video (frames per second) or field rate for interlaced scan video (fields per second). String value should be in format "<value>/<factor>" or "<value>" . Examples: "24000/1001" or "24" .
[].scan	String	Allowed values are " PROGRESSIVE " (for progressive scan video) or " INTERLACED " (for interlaced scan video).
[].fieldOrder	String	Allowed values are " TOP_FIELD_FIRST " or " BOTTOM_FIELD_FIRST " .
[].channelCount	Number	Number of audio channels.
[].rate	Number	Audio sampling rate in Hz.
[].bitrate	Number	Bitrate of audio in bits per second.
[].info	String	Metadata description.
messages	Array	Messages for this elementary stream.

Elementary streams of particular types (VIDEO, AUDIO, CAPTIONS, METADATA) have additional fields.

Elementary streams example:

```
[ {
  "id" : 0,
  "pid" : 501,
  "type" : "UNKNOWN",
  "state" : "NEW",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 501,
    "id" : 0,
    "streamDescription" : "Unknown Stream (pid: 501)"
  }
}, {
  "id" : 0,
  "pid" : 502,
  "type" : "VIDEO",
  "state" : "NEW",
  "format" : "J2K",
  "width" : 1920,
  "height" : 1080,
  "depth" : 10,
  "sampling" : "4:2:2",
  "scanRate" : "60000/1001",
  "scan" : "INTERLACED",
  "fieldOrder" : "BOTTOM_FIELD_FIRST",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 502,
    "id" : 0,
    "format" : "J2K",
    "width" : 1920,
    "height" : 1080,
    "depth" : 10,
    "sampling" : "S422",
    "scanRate" : "60000/1001",
    "scan" : "INTERLACED",
    "fieldOrder" : "BOTTOM_FIELD_FIRST",
    "streamDescription" : "Video Stream (pid: 502, JPEG2000 1920x1080i (bottom-first) @59.94Hz 4:2:2 10-bit)"
  },
  "messages" : [ ]
}, {
  "id" : 0,
  "pid" : 503,
  "type" : "AUDIO",
  "state" : "NEW",
  "format" : "AES3",
  "channelCount" : 2,
  "rate" : 48000,
  "bitrate" : 235000,
  "elementaryStream" : {
    "messages" : [ {
      "severity" : "ERROR",
      "message" : "${stream} wasn't detected in source stream."
    } ],
    "state" : "NEW",
    "pid" : 503,
    "id" : 0,
    "format" : "AES3",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 235000,
    "bitsPerSample" : 0,
    "streamDescription" : "Audio Stream (pid: 503, AES3 2-channels 48000 Hz 235 kb/s)"
  },
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "This audio stream wasn't detected in source stream."
  } ]
} ]
```

```

}, {
  "id" : 1,
  "pid" : 499,
  "type" : "AUDIO",
  "state" : "NEW",
  "format" : "AES3_DOLBY_E",
  "channelCount" : 2,
  "rate" : 48000,
  "bitrate" : 128000,
  "elementaryStream" : {
    "messages" : [ {
      "severity" : "ERROR",
      "message" : "${stream} wasn't detected in source stream."
    } ],
    "state" : "NEW",
    "pid" : 499,
    "id" : 1,
    "format" : "AES3_DOLBY_E",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 128000,
    "bitsPerSample" : 0,
    "streamDescription" : "Audio Stream (pid: 499, AES3_DOLBY_E 2-channels 48000 Hz 128 kb/s)"
  },
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "This audio stream wasn't detected in source stream."
  } ]
}, {
  "id" : 0,
  "pid" : 504,
  "type" : "CAPTIONS",
  "state" : "NEW",
  "format" : "CEA_708_SMPTE_2038",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 504,
    "id" : 0,
    "format" : "CEA_708_SMPTE_2038",
    "streamDescription" : "Captions Stream (pid: 504, CEA-708 in SMPTE-2038)"
  },
  "messages" : [ ]
}, {
  "id" : 0,
  "pid" : 505,
  "type" : "METADATA",
  "state" : "NEW",
  "format" : "UNKNOWN",
  "info" : "INFO1",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",
    "pid" : 505,
    "id" : 0,
    "format" : "UNKNOWN",
    "info" : "INFO1",
    "streamDescription" : "Metadata Stream (pid: 505, Unknown, info: INFO1)"
  },
  "messages" : [ ]
}, {
  "id" : 1,
  "pid" : 506,
  "type" : "METADATA",
  "state" : "NEW",
  "format" : "SMPTE_2038",
  "info" : "BLABLA",
  "elementaryStream" : {
    "messages" : [ ],
    "state" : "NEW",

```

```

    "pid" : 506,
    "id" : 1,
    "format" : "SMPTE_2038",
    "info" : "BLABLA",
    "streamDescription" : "Metadata Stream (pid: 506, SMPTE-2038, info: BLABLA)"
  },
  "messages" : [ ]
} ]

```

Output Stream State

JSON object containing output stream state.

Path	Type	Description
id	Number	Unique identifier of this output stream.
uniqueId	String	Unique pipeline output UUID. Randomly generated when a user creates the output, removed on the output removal. Can't be downloaded with pipeline preset. Survives stopping of pipeline and restart of service/machine.
status	String	Allowed values are "ERROR", "WARNING", "OK" or "UNKNOWN".
name	String	Name of this output stream.
sink	String	URL string value. It should be in format "rtp://<ip-address>:<port>:<interface-id>" for RTP/UDP stream, "udp://<ip-address>:<port>:<interface-id>" for UDP stream, "srt://<ip-address-or-web-url>:<port>:<interface-id>" for SRT stream, "sdi://<sdi-device-id>:<port-index>" for SDI stream, "\"ndi://<ndi-name>\" for NDI stream or "file:///<file>" for transcoder system local file. The <interface-id> should be the identifier of one of the available network interfaces. The <sdi-device-id> should be the identifier of one of the available SDI devices. Examples: "rtp://127.0.0.1:5000:lo", "udp://127.0.0.1:5001:lo", "sdi://aja-sdi-0:0" or "file:///tmp/input.ts".
description	String	Output stream description.
encodingLatency	Number	Encoding latency of progressive frame/interlaced field in milliseconds for this output stream (average over the last few seconds).
transcodedFps	Number	Number of transcoded progressive frames/interlaced fields per second for this output stream (average over the last few seconds).
transcodingLatency	Number	Transcoding latency of progressive frame/interlaced field in milliseconds for this output stream (average over the last few seconds).
latencyAddition	Number	Latency as difference between PTS of corresponding input and output frame in msec. Negative value means undefined.

Path	Type	Description
droppedFps	Number	Number of dropped progressive frames/interlaced fields per second for this output stream (average over the last few seconds).
messages	Array	Messages for this output stream.

Output Stream State example:

```
{
  "id" : 0,
  "uniqueId" : "ddc2b880-d32c-4bae-afd1-b4c5b2b75d19",
  "status" : "ERROR",
  "name" : "Output Stream 1",
  "sink" : "rtp://127.0.0.1:50001",
  "description" : "H.264 1920x1080 4:2:0 8-bit",
  "encodingLatency" : 0.0,
  "transcodedFps" : 0.0,
  "transcodingLatency" : 0.0,
  "droppedFps" : 0.0,
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "Output Stream 1: Not producing any output."
  } ],
  "latencyAddition" : 0
}
```

Configuration of All Pipelines

Allows you to list and replace configuration of all pipelines at once.

List All Existing Pipelines

You may list all existing pipelines by using this action. It returns JSON array containing all existing pipelines.

HTTP request

```
GET /api/pipelines HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/pipelines' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

BASH

Response data

Path	Type	Description
[]	Array of Pipelines	An array of all existing pipelines. See Pipeline.

HTTP response

HTTP/1.1 200 OK

Vary: Origin

Vary: Access-Control-Request-Method

Vary: Access-Control-Request-Headers

Content-Type: application/json

Content-Length: 4775

```
[ {
  "version" : "0.16",
  "id" : 0,
  "name" : "Pipeline 1",
  "runningState" : "INACTIVE",
  "inputs" : [ {
    "id" : 0,
    "source" : {
      "streamType" : "MPEG_TS",
      "address" : {
        "url" : "srt://127.0.0.1:5001:lo",
        "srt" : {
          "mode" : "CALLER",
          "latency" : 50,
          "streamID" : "#!::u=admin,t=file,m=publish,r=results.csv",
          "passphrase" : "",
          "redundancy" : [ "srt://127.0.0.1:5002:lo" ]
        }
      },
      "complianceWith" : "AUTO",
      "addressPCR" : {
        "url" : "srt://0.0.0.0:5000:lo",
        "srt" : {
          "mode" : "LISTENER",
          "latency" : 50,
          "passphrase" : ""
        }
      }
    }
  },
  "video" : {
    "format" : "J2K",
    "width" : 1920,
    "height" : 1080,
    "sampling" : "4:2:2",
    "depth" : 10,
    "scanRate" : "50",
    "scan" : "INTERLACED",
    "fieldOrder" : "TOP_FIELD_FIRST",
    "filters" : {
      "yOffset" : 16,
      "yGain" : 0.2,
      "rOffset" : 1,
      "rGain" : 0.01,
      "gOffset" : 2,
      "gGain" : 0.02,
      "bOffset" : 3,
      "bGain" : 0.03,
      "rgbClip" : true,
      "hue" : 4.5,
      "saturation" : 0.5
    }
  },
  "audio" : [ {
    "id" : 0,
    "pid" : 661,
    "format" : "AES3",
    "rate" : 48000,
    "channels" : 2,
    "filters" : {
      "volumeGain" : 2.5
    },
    "passthrough" : false
  }
]
```

```
    } ],
    "captions" : [ {
      "id" : 0,
      "pid" : 662,
      "format" : "CEA_708_SMPTE_2038"
    } ],
    "metadata" : [ {
      "id" : 0,
      "pid" : 663,
      "format" : "UNKNOWN"
    } ]
  } ],
  "outputs" : [ {
    "streamType" : "MPEG_TS",
    "id" : 0,
    "name" : "Output Stream 1",
    "sink" : {
      "address" : {
        "url" : "srt://0.0.0.0:6001:lo",
        "srt" : {
          "mode" : "LISTENER",
          "overhead" : 20,
          "encryption" : "AES_256",
          "passphrase" : "0123456789",
          "redundancy" : [ "srt://127.0.0.1:5002:lo" ]
        }
      }
    },
    "ts" : {
      "service" : {
        "name" : "SERVICE",
        "providerName" : "PROVIDER"
      },
      "pcrStreamLocation" : "SEPARATE",
      "ebpLength" : 5,
      "ebpLengthUnit" : "SECONDS",
      "bitrate" : 11000000,
      "outputComplianceWith" : "STANDARD"
    },
    "video" : {
      "pid" : 670,
      "format" : "H264",
      "width" : 720,
      "height" : 576,
      "sampling" : "4:2:0",
      "depth" : 8,
      "scanRateType" : "SAME_AS_INPUT",
      "scan" : "INTERLACED",
      "fieldOrder" : "TOP_FIELD_FIRST",
      "h264" : {
        "coding" : "CABAC",
        "profile" : "HIGH",
        "gopSize" : 120,
        "bCount" : 0
      },
      "bitrate" : 8000000,
      "captions" : {
        "reference" : {
          "inputId" : 0,
          "id" : 0
        }
      },
      "crop" : {
        "fit" : "PAD",
        "from" : [ 0, 10 ],
        "to" : [ -1, 1070 ]
      },
      "logo" : {
        "id" : 0,
        "horizontalPosition" : 5,
```

```

        "verticalPosition" : 10,
        "horizontalScaling" : 150.0,
        "verticalScaling" : 200.0
    }
},
"audio" : [ {
    "id" : 0,
    "pid" : 671,
    "format" : "AAC_ADTS",
    "rate" : 48000,
    "name" : "Output audio 1",
    "bitrate" : 1000000,
    "channels" : 2,
    "references" : [ {
        "inputId" : 0,
        "id" : 0,
        "channel" : 0
    } ]
} ],
"captions" : [ {
    "id" : 0,
    "pid" : 672,
    "format" : "CEA_708_SMPTE_2038",
    "reference" : {
        "inputId" : 0,
        "id" : 0
    }
} ],
"metadata" : [ {
    "id" : 0,
    "pid" : 673,
    "format" : "UNKNOWN",
    "reference" : {
        "inputId" : 0,
        "id" : 0
    }
} ],
"uploadedLogos" : [ {
    "id" : 0,
    "name" : "logo.png",
    "codestream" : "iVBORw0KGgoAAAANSUHEUgAAAAEAAAABCAIAAACQd1PeAAAD01EQVQIHQEEAPv/AP///wX+Av4DfRnGAAAAAE1FTkSuQmCC"
} ],
"links" : [ {
    "rel" : "self",
    "href" : "https://127.0.0.1/api/pipeline/0"
}, {
    "rel" : "state",
    "href" : "https://127.0.0.1/api/pipeline/0/state"
} ],
{
    "version" : "0.16",
    "id" : 1,
    "name" : "Pipeline 2",
    "inputs" : [ {
        "id" : 0,
        "source" : {
            "streamType" : "MPEG_TS",
            "address" : {
                "url" : "rtp://0.0.0.0:5002:10"
            },
            "complianceWith" : "AUTO"
        },
        "video" : {
            "format" : "J2K",
            "width" : 1920,
            "height" : 1080,
            "sampling" : "4:2:2",
            "depth" : 10,
            "scanRate" : "60000/1001",

```

```
    "scan" : "PROGRESSIVE"
  }
} ],
"links" : [ {
  "rel" : "self",
  "href" : "https://127.0.0.1/api/pipeline/1"
}, {
  "rel" : "state",
  "href" : "https://127.0.0.1/api/pipeline/1/state"
} ]
} ]
```

Replace All Pipelines

You may replace all existing pipelines by using this action. It removes all existing pipelines and creates all pipelines contained in given JSON array.

You can use the response JSON array from listing all existing pipelines as input for this action.

Request data

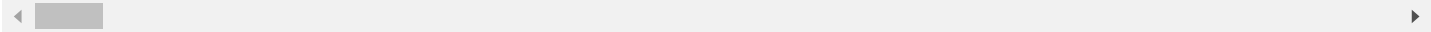
Path	Type	Description
[]	Array	An array of pipelines to be replaced. See Pipeline.

HTTP request

```
POST /api/pipelines HTTP/1.1
Content-Type: application/json
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Content-Length: 2649
Host: 127.0.0.1
```

HTTP

```
[{"id":0,"name":"Pipeline 1","runningState":"INACTIVE","inputs":[{"id":0, "source":{"address":{"url":"srt://127.0.0.1", "streamType":"MP
, {"id":1,"name":"Pipeline 2","inputs":[{"id":0, "source":{"address":{"url":"rtp://0.0.0.0:5002:lo"},"streamType":"MP
```



Curl request

```
$ curl 'https://127.0.0.1/api/pipelines' -i -u 'admin:password' -X POST \
-H 'Content-Type: application/json' \
-d '[{"id":0,"name":"Pipeline 1","runningState":"INACTIVE","inputs":[{"id":0, "source":{"address":
{"url":"srt://127.0.0.1:5001:lo","srt":
{"mode":"CALLER","latency":50,"streamID":"#:u=admin,t=file,m=publish,r=results.csv","passphrase":"","
"redundancy":["srt://127.0.0.1:5002:lo"]},"streamType":"MPEG_TS","complianceWith":"AUTO","addressPCR":
{"url":"srt://0.0.0.0:5000:lo","srt":{"mode":"LISTENER","latency":50,"passphrase":""}}},"video":
{"format":"J2K","width":1920,"height":1080,"sampling":"4:2:2","depth":10,"scanRate":"50","scan":"INTERLACED","field
Order":"TOP_FIELD_FIRST","filters":
{"yOffset":16,"yGain":0.2,"rOffset":1,"rGain":0.01,"gOffset":2,"gGain":0.02,"bOffset":3,"bGain":0.03,"rgbClip":true
,"hue":4.5,"saturation":0.5},"audio":[{"id":0,"pid":661,"format":"AES3","rate":48000,"channels":2,"filters":
{"volumeGain":2.5},"passthrough":false}], "captions":[{"id":0,"pid":662,"format":"CEA_708_SMPTE_2038"}],"metadata":
{"id":0,"pid":663,"format":"UNKNOWN"}]}],"outputs":[{"id":0,"name":"Output Stream
1","streamType":"MPEG_TS","sink":{"address":{"url":"srt://0.0.0.0:6001:lo","srt":
{"mode":"LISTENER","overhead":20,"encryption":"AES_256","passphrase":"0123456789","redundancy":
["srt://127.0.0.1:5002:lo"]},"ts":{"service":
{"name":"SERVICE","providerName":"PROVIDER"},"pcrStreamLocation":"SEPARATE","ebpLength":5,"ebpLengthUnit":"SECONDS"
,"bitrate":11000000,"outputComplianceWith":"STANDARD"},"video":
{"pid":670,"format":"H264","width":720,"height":576,"crop":{"fit":"PAD","from":[0,10],"to":[-1,1070]},"logo":
{"id":0,"horizontalPosition":5,"verticalPosition":10,"horizontalScaling":150.0,"verticalScaling":200.0},"sampling":
"4:2:0","depth":8,"scanRateType":"SAME_AS_INPUT","scan":"INTERLACED","fieldOrder":"TOP_FIELD_FIRST","captions":
{"reference":{"inputId":0,"id":0},"bitrate":8000000,"h264":
{"coding":"CABAC","profile":"HIGH","gopSize":120,"bCount":0},"audio":
[{"id":0,"pid":671,"format":"AAC_ADTS","rate":48000,"name":"Output audio 1","bitrate":1000000,"references":
[{"inputId":0,"id":0,"channel":0}], "channels":2}], "captions":
[{"id":0,"pid":672,"format":"CEA_708_SMPTE_2038","reference":{"inputId":0,"id":0}}],"metadata":
[{"id":0,"pid":673,"format":"UNKNOWN","reference":{"inputId":0,"id":0}}]}],"uploadedLogos":
[{"id":0,"name":"logo.png","codestream":"iVBORwOKGgoAAAANSUHEUgAAAAEAAAABCAIAAACQd1PeAAAAD01EQVQIHQEAPv/AP///wX+Av
4DfRnGAAAAAE1FTkSuQmCC"}]}
, {"id":1,"name":"Pipeline 2","inputs":[{"id":0, "source":{"address":
{"url":"rtp://0.0.0.0:5002:lo"},"streamType":"MPEG_TS","complianceWith":"AUTO"},"video":
{"format":"J2K","width":1920,"height":1080,"sampling":"4:2:2","depth":10,"scanRate":"60000/1001","scan":"PROGRESSIV
E"}]}]
```

HTTP response

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
```

Configuration of a Single Pipeline

Allows you to create a new pipeline or get, modify or delete some existing pipeline.

Create a New Pipeline

You may create a new pipeline by using this action. It takes a JSON object containing the new pipeline configuration.

Request data

Path	Type	Description
{}	Pipeline	Configuration of new pipeline. See Pipeline.

HTTP request

POST /api/pipeline HTTP/1.1

Content-Type: application/json

Authorization: Basic YWRtaW46cGFzc3dvcmQ=

Content-Length: 261

Host: 127.0.0.1

```
{ "name": "Pipeline 3", "inputs": [ { "id": 0, "source": { "address": { "url": "rtp://0.0.0.0:5003:lo" }, "streamType": "MPEG_TS", "c
```

Curl request

\$ curl 'https://127.0.0.1/api/pipeline' -i -u 'admin:password' -X POST \

-H 'Content-Type: application/json' \

-d '{ "name": "Pipeline 3", "inputs": [{ "id": 0, "source": { "address": {

{ "url": "rtp://0.0.0.0:5003:lo" }, "streamType": "MPEG_TS", "complianceWith": "AUTO" }, "video":

{ "format": "J2K", "width": 1920, "height": 1080, "sampling": "4:2:2", "depth": 10, "scanRate": "24", "scan": "PROGRESSIVE" }] } }'

HTTP response

HTTP/1.1 201 Created

Vary: Origin

Vary: Access-Control-Request-Method

Vary: Access-Control-Request-Headers

Location: https://127.0.0.1/api/pipeline/2

Get an Existing Pipeline

You may get an existing pipeline by using this action. It takes pipeline identifier as a parameter and it returns JSON object with pipeline configuration.

HTTP request

GET /api/pipeline/0 HTTP/1.1

Authorization: Basic YWRtaW46cGFzc3dvcmQ=

Accept: application/json

Host: 127.0.0.1

Curl request

\$ curl 'https://127.0.0.1/api/pipeline/0' -i -u 'admin:password' -X GET \

-H 'Accept: application/json'

Response data

Path	Type	Description
{}	Pipeline	Configuration of existing pipeline. See Pipeline.

HTTP response

HTTP/1.1 200 OK

Vary: Origin

Vary: Access-Control-Request-Method

Vary: Access-Control-Request-Headers

Content-Type: application/json

Content-Length: 4136

```
{
  "version" : "0.16",
  "id" : 0,
  "name" : "Pipeline 1",
  "runningState" : "INACTIVE",
  "inputs" : [ {
    "id" : 0,
    "source" : {
      "streamType" : "MPEG_TS",
      "address" : {
        "url" : "srt://127.0.0.1:5001:lo",
        "srt" : {
          "mode" : "CALLER",
          "latency" : 50,
          "streamID" : "#!::u=admin,t=file,m=publish,r=results.csv",
          "passphrase" : "",
          "redundancy" : [ "srt://127.0.0.1:5002:lo" ]
        }
      },
      "complianceWith" : "AUTO",
      "addressPCR" : {
        "url" : "srt://0.0.0.0:5000:lo",
        "srt" : {
          "mode" : "LISTENER",
          "latency" : 50,
          "passphrase" : ""
        }
      }
    }
  },
  "video" : {
    "format" : "J2K",
    "width" : 1920,
    "height" : 1080,
    "sampling" : "4:2:2",
    "depth" : 10,
    "scanRate" : "50",
    "scan" : "INTERLACED",
    "fieldOrder" : "TOP_FIELD_FIRST",
    "filters" : {
      "yOffset" : 16,
      "yGain" : 0.2,
      "rOffset" : 1,
      "rGain" : 0.01,
      "gOffset" : 2,
      "gGain" : 0.02,
      "bOffset" : 3,
      "bGain" : 0.03,
      "rgbClip" : true,
      "hue" : 4.5,
      "saturation" : 0.5
    }
  },
  "audio" : [ {
    "id" : 0,
    "pid" : 661,
    "format" : "AES3",
    "rate" : 48000,
    "channels" : 2,
    "filters" : {
      "volumeGain" : 2.5
    }
  },
  "passthrough" : false
}
```

```
    } ],
    "captions" : [ {
      "id" : 0,
      "pid" : 662,
      "format" : "CEA_708_SMPTE_2038"
    } ],
    "metadata" : [ {
      "id" : 0,
      "pid" : 663,
      "format" : "UNKNOWN"
    } ]
  } ],
  "outputs" : [ {
    "streamType" : "MPEG_TS",
    "id" : 0,
    "name" : "Output Stream 1",
    "sink" : {
      "address" : {
        "url" : "srt://0.0.0.0:6001:lo",
        "srt" : {
          "mode" : "LISTENER",
          "overhead" : 20,
          "encryption" : "AES_256",
          "passphrase" : "0123456789",
          "redundancy" : [ "srt://127.0.0.1:5002:lo" ]
        }
      }
    },
    "ts" : {
      "service" : {
        "name" : "SERVICE",
        "providerName" : "PROVIDER"
      },
      "pcrStreamLocation" : "SEPARATE",
      "ebpLength" : 5,
      "ebpLengthUnit" : "SECONDS",
      "bitrate" : 11000000,
      "outputComplianceWith" : "STANDARD"
    },
    "video" : {
      "pid" : 670,
      "format" : "H264",
      "width" : 720,
      "height" : 576,
      "sampling" : "4:2:0",
      "depth" : 8,
      "scanRateType" : "SAME_AS_INPUT",
      "scan" : "INTERLACED",
      "fieldOrder" : "TOP_FIELD_FIRST",
      "h264" : {
        "coding" : "CABAC",
        "profile" : "HIGH",
        "gopSize" : 120,
        "bCount" : 0
      },
      "bitrate" : 8000000,
      "captions" : {
        "reference" : {
          "inputId" : 0,
          "id" : 0
        }
      },
      "crop" : {
        "fit" : "PAD",
        "from" : [ 0, 10 ],
        "to" : [ -1, 1070 ]
      },
      "logo" : {
        "id" : 0,
        "horizontalPosition" : 5,
```

```

        "verticalPosition" : 10,
        "horizontalScaling" : 150.0,
        "verticalScaling" : 200.0
    }
},
"audio" : [ {
    "id" : 0,
    "pid" : 671,
    "format" : "AAC_ADTS",
    "rate" : 48000,
    "name" : "Output audio 1",
    "bitrate" : 1000000,
    "channels" : 2,
    "references" : [ {
        "inputId" : 0,
        "id" : 0,
        "channel" : 0
    } ]
} ],
"captions" : [ {
    "id" : 0,
    "pid" : 672,
    "format" : "CEA_708_SMPTE_2038",
    "reference" : {
        "inputId" : 0,
        "id" : 0
    }
} ],
"metadata" : [ {
    "id" : 0,
    "pid" : 673,
    "format" : "UNKNOWN",
    "reference" : {
        "inputId" : 0,
        "id" : 0
    }
} ],
"uploadedLogos" : [ {
    "id" : 0,
    "name" : "logo.png",
    "codestream" : "iVBORw0KGgoAAAANSUHEUgAAAAEAAAABCAIAAACQd1PeAAAD01EQVQIHQEEAPv/AP///wX+Av4DfRnGAAAAAE1FTkSuQmCC"
} ],
"_links" : {
    "self" : {
        "href" : "https://127.0.0.1/api/pipeline/0"
    },
    "state" : {
        "href" : "https://127.0.0.1/api/pipeline/0/state"
    }
}
}
}

```

Modify an Existing Pipeline

You may modify an existing pipeline configuration by using this action. It takes pipeline identifier and JSON object with new pipeline configuration as parameters.

Request data

Path	Type	Description
{}	Pipeline	Configuration of new pipeline. See Pipeline.

HTTP request

```
PUT /api/pipeline/1 HTTP/1.1
Content-Type: application/json
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Content-Length: 269
Host: 127.0.0.1
```

HTTP

```
{"name":"Pipeline 2 Changed","inputs":[{"id":0, "source":{"address":{"url":"rtp://0.0.0.0:5002:lo"},"streamType":"MPE
```

Curl request

```
$ curl 'https://127.0.0.1/api/pipeline/1' -i -u 'admin:password' -X PUT \
  -H 'Content-Type: application/json' \
  -d '{"name":"Pipeline 2 Changed","inputs":[{"id":0, "source":{"address":
{"url":"rtp://0.0.0.0:5002:lo"},"streamType":"MPEG_TS","complianceWith":"AUTO"},"video":
{"format":"J2K","width":1920,"height":1080,"sampling":"4:2:2","depth":10,"scanRate":"24","scan":"PROGRESSIVE"}}]}'
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Location: https://127.0.0.1/api/pipeline/1
```

HTTP

Start an Existing Pipeline

You may start an existing pipeline by using this action. It takes pipeline identifier as a parameter. Starting an already started pipeline or a pipeline that's in the process of starting/stopping returns 503 .

HTTP request

```
PUT /api/pipeline/1/start HTTP/1.1
Content-Type: application/json
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/pipeline/1/start' -i -u 'admin:password' -X PUT \
  -H 'Content-Type: application/json'
```

BASH

HTTP response

```
HTTP/1.1 503 Service Unavailable
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 46
```

HTTP

Failed to start the pipeline, try again later.

Stop an Existing Pipeline

You may stop an existing pipeline by using this action. It takes pipeline identifier as a parameter. Stopping an already stopped pipeline or a pipeline that's in the process of starting/stopping returns 503 .

HTTP request

```
PUT /api/pipeline/1/stop HTTP/1.1
Content-Type: application/json
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/pipeline/1/stop' -i -u 'admin:password' -X PUT \
-H 'Content-Type: application/json'
```

BASH

HTTP response

```
HTTP/1.1 503 Service Unavailable
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 45
```

HTTP

Failed to stop the pipeline, try again later.

Remove an Existing Pipeline

You may delete an existing pipeline by using this action. It takes pipeline identifier as a parameter.

HTTP request

```
DELETE /api/pipeline/1 HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/pipeline/1' -i -u 'admin:password' -X DELETE
```

BASH

HTTP response

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
```

HTTP

Retrieving Pipeline State

Allows you to retrieve current state of all existing pipelines.

Get Pipeline Runtime State

You may retrieve the runtime state of a running pipeline by using this action. It takes pipeline identifier as a parameter and it returns JSON object containing the pipeline runtime state.

HTTP request

```
GET /api/pipeline/0/state HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/pipeline/0/state' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

BASH

Response data

Path	Type	Description
{}	Pipeline State	Current state of existing pipeline. See Pipeline State.

HTTP response

HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 5320

```
{
  "id" : 0,
  "status" : "ERROR",
  "operationState" : "STARTED",
  "licenseStatus" : "GRANTED",
  "licenseExpirationDate" : "1970-01-01T00:00:00Z",
  "licenseRemainingTime" : "00:00:00",
  "name" : "Pipeline 1",
  "uniqueId" : "577b54da-5dfe-4bea-add6-b689e8cd7eea",
  "inputs" : [ {
    "id" : 0,
    "status" : "ERROR",
    "name" : "rtp://0.0.0.0:5000:10",
    "description" : "JPEG2000 1920x1080 4:4:4 10-bit",
    "elementaryStreams" : [ {
      "id" : 0,
      "pid" : 501,
      "type" : "UNKNOWN",
      "state" : "NEW",
      "elementaryStream" : {
        "messages" : [ ],
        "state" : "NEW",
        "pid" : 501,
        "id" : 0,
        "streamDescription" : "Unknown Stream (pid: 501)"
      }
    }
  ], {
    "id" : 0,
    "pid" : 502,
    "type" : "VIDEO",
    "state" : "NEW",
    "format" : "J2K",
    "width" : 1920,
    "height" : 1080,
    "depth" : 10,
    "sampling" : "4:2:2",
    "scanRate" : "60000/1001",
    "scan" : "INTERLACED",
    "fieldOrder" : "BOTTOM_FIELD_FIRST",
    "elementaryStream" : {
      "messages" : [ ],
      "state" : "NEW",
      "pid" : 502,
      "id" : 0,
      "format" : "J2K",
      "width" : 1920,
      "height" : 1080,
      "depth" : 10,
      "sampling" : "S422",
      "scanRate" : "60000/1001",
      "scan" : "INTERLACED",
      "fieldOrder" : "BOTTOM_FIELD_FIRST",
      "streamDescription" : "Video Stream (pid: 502, JPEG2000 1920x1080i (bottom-first) @59.94Hz 4:2:2 10-bit)"
    },
    "messages" : [ ]
  }, {
    "id" : 0,
    "pid" : 503,
    "type" : "AUDIO",
    "state" : "NEW",
    "format" : "AES3",
    "channelCount" : 2,
```

```

    "rate" : 48000,
    "bitrate" : 235000,
    "elementaryStream" : {
      "messages" : [ {
        "severity" : "ERROR",
        "message" : "${stream} wasn't detected in source stream."
      } ],
      "state" : "NEW",
      "pid" : 503,
      "id" : 0,
      "format" : "AES3",
      "channelCount" : 2,
      "rate" : 48000,
      "bitrate" : 235000,
      "bitsPerSample" : 0,
      "streamDescription" : "Audio Stream (pid: 503, AES3 2-channels 48000 Hz 235 kb/s)"
    },
    "messages" : [ {
      "severity" : "ERROR",
      "message" : "This audio stream wasn't detected in source stream."
    } ]
  }, {
    "id" : 1,
    "pid" : 499,
    "type" : "AUDIO",
    "state" : "NEW",
    "format" : "AES3_DOLBY_E",
    "channelCount" : 2,
    "rate" : 48000,
    "bitrate" : 128000,
    "elementaryStream" : {
      "messages" : [ {
        "severity" : "ERROR",
        "message" : "${stream} wasn't detected in source stream."
      } ],
      "state" : "NEW",
      "pid" : 499,
      "id" : 1,
      "format" : "AES3_DOLBY_E",
      "channelCount" : 2,
      "rate" : 48000,
      "bitrate" : 128000,
      "bitsPerSample" : 0,
      "streamDescription" : "Audio Stream (pid: 499, AES3_DOLBY_E 2-channels 48000 Hz 128 kb/s)"
    },
    "messages" : [ {
      "severity" : "ERROR",
      "message" : "This audio stream wasn't detected in source stream."
    } ]
  }, {
    "id" : 0,
    "pid" : 504,
    "type" : "CAPTIONS",
    "state" : "NEW",
    "format" : "CEA_708_SMPTE_2038",
    "elementaryStream" : {
      "messages" : [ ],
      "state" : "NEW",
      "pid" : 504,
      "id" : 0,
      "format" : "CEA_708_SMPTE_2038",
      "streamDescription" : "Captions Stream (pid: 504, CEA-708 in SMPTE-2038)"
    },
    "messages" : [ ]
  }, {
    "id" : 0,
    "pid" : 505,
    "type" : "METADATA",
    "state" : "NEW",
    "format" : "UNKNOWN",

```

```

    "info" : "INFO1",
    "elementaryStream" : {
      "messages" : [ ],
      "state" : "NEW",
      "pid" : 505,
      "id" : 0,
      "format" : "UNKNOWN",
      "info" : "INFO1",
      "streamDescription" : "Metadata Stream (pid: 505, Unknown, info: INFO1)"
    },
    "messages" : [ ]
  }, {
    "id" : 1,
    "pid" : 506,
    "type" : "METADATA",
    "state" : "NEW",
    "format" : "SMPTE_2038",
    "info" : "BLABLA",
    "elementaryStream" : {
      "messages" : [ ],
      "state" : "NEW",
      "pid" : 506,
      "id" : 1,
      "format" : "SMPTE_2038",
      "info" : "BLABLA",
      "streamDescription" : "Metadata Stream (pid: 506, SMPTE-2038, info: BLABLA)"
    },
    "messages" : [ ]
  } ],
  "decodedFps" : 0.0,
  "decodingLatency" : 0.0,
  "invalidFps" : 0.0,
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "rtp://0.0.0.0:5000:lo: input stream #0 error."
  } ]
} ],
"outputs" : [ {
  "id" : 0,
  "uniqueId" : "ddc2b880-d32c-4bae-afd1-b4c5b2b75d19",
  "status" : "ERROR",
  "name" : "Output Stream 1",
  "sink" : "rtp://127.0.0.1:50001",
  "description" : "H.264 1920x1080 4:2:0 8-bit",
  "encodingLatency" : 0.0,
  "transcodedFps" : 0.0,
  "transcodingLatency" : 0.0,
  "droppedFps" : 0.0,
  "messages" : [ {
    "severity" : "ERROR",
    "message" : "Output Stream 1: Not producing any output."
  } ],
  "latencyAddition" : 0
} ],
"_links" : {
  "self" : {
    "href" : "https://127.0.0.1/api/pipeline/0/state"
  },
  "pipeline" : {
    "href" : "https://127.0.0.1/api/pipeline/0"
  }
}
}
}

```

System

Version info

Allows you to retrieve information about current running version of transcoder.

HTTP request

```
GET /api/system/version HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/system/version' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

BASH

Response data

Path	Type	Description
transcoder	Object	Transcoder version info.
transcoder.version	String	Version in format <major>.<minor>.<maintenance> .
transcoder.stage	String	Version stage (e.g., release or beta).
transcoder.date	String	Release date in format <year>-<month>-<day> .
transcoder.hash	String	Version hash (unique version identifier).
transcoder.deploymentMode	String	Deployment mode (host or docker)
transcoder.fullVersionName	String	Full version string.
j2kDec	Object	JPEG2000 SDK decoder version info.
j2kDec.version	String	Version in format <major>.<minor>.<maintenance> .
j2kDec.date	String	Release date in format <year>-<month>-<day> .
j2kDec.hash	String	Version hash (unique version identifier).
j2kDec.stage	String	Version stage (e.g., release).
j2kDec.type	String	Version type (e.g., full or evaluation).
j2kDec.technology	Array	Array of supported technologies (cpu , cuda or opencl).
j2kEnc	Object	JPEG2000 SDK encoder version info.
j2kEnc.version	String	Version in format <major>.<minor>.<maintenance> .
j2kEnc.date	String	Release date in format <year>-<month>-<day> .
j2kEnc.hash	String	Version hash (unique version identifier).

Path	Type	Description
j2kEnc.stage	String	Version stage (e.g., release).
j2kEnc.type	String	Version type (e.g., full or evaluation).
j2kEnc.technology	Array	Array of supported technologies (cpu , cuda or opencl).
j2kTrc	Object	JPEG2000 SDK transcoder version info.
j2kTrc.version	String	Version in format <major>.<minor>.<maintenance> .
j2kTrc.date	String	Release date in format <year>-<month>-<day> .
j2kTrc.hash	String	Version hash (unique version identifier).
j2kTrc.stage	String	Version stage (e.g., release).
j2kTrc.type	String	Version type (e.g., full or evaluation).
j2kTrc.technology	Array	Array of supported technologies (cpu , cuda or opencl).
nvidiaDriver	String	NVIDIA driver version in format <major>.<minor> or <major>.<minor>.<maintenance> .
cudaDriver	String	CUDA driver version in format <major>.<minor> .
cudaRuntime	String	CUDA runtime version in format <major>.<minor> .

HTTP response

HTTP/1.1 200 OK

Vary: Origin

Vary: Access-Control-Request-Method

Vary: Access-Control-Request-Headers

Content-Type: application/json

Content-Length: 1016

```
{
  "transcoder" : {
    "version" : "1.0.0",
    "stage" : "pipelines/38649",
    "date" : "2024-09-04",
    "hash" : "7814d7e05c38d0e5a50ba4f31850ece62938bba1",
    "fullVersionName" : "1.0.0-pipelines/38649 2024-09-04 7814d7e05c38d0e5a50ba4f31850ece62938bba1",
    "deploymentMode" : "host"
  },
  "j2kDec" : {
    "version" : "2.5.10",
    "stage" : "release",
    "date" : "2018-03-27",
    "hash" : "a22b87f11d83cd7a610a91e38b7ec6c8cef33664",
    "type" : "full",
    "technology" : [ "cuda", "cpu" ]
  },
  "j2kEnc" : {
    "version" : "2.5.10",
    "stage" : "release",
    "date" : "2018-03-27",
    "hash" : "a22b87f11d83cd7a610a91e38b7ec6c8cef33664",
    "type" : "full",
    "technology" : [ "cuda", "cpu" ]
  },
  "j2kTrc" : {
    "version" : "2.5.10",
    "stage" : "release",
    "date" : "2018-03-27",
    "hash" : "a22b87f11d83cd7a610a91e38b7ec6c8cef33664",
    "type" : "full",
    "technology" : [ "cuda", "cpu" ]
  },
  "nvidiaDriver" : "384.98",
  "cudaDriver" : "9.0",
  "cudaRuntime" : "9.0"
}
```

Get list of available network interfaces

Allows you to retrieve list of all available network interfaces whose identifiers can be used in pipeline source or output stream sink.

HTTP request

```
GET /api/system/network-interfaces HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

Curl request

```
$ curl 'https://127.0.0.1/api/system/network-interfaces' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

Response data

Path	Type	Description
[]	Array	Array of available network interfaces.
[].id	String	Identifier of the network interface.
[].name	String	Display name of the network interface.
[].connected	Boolean	Indicates whether network interface is connected.

HTTP response

HTTP

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 507
```

```
[ {
  "id" : "docker0",
  "name" : "Bridge 1 (docker0)",
  "connected" : false
}, {
  "id" : "enp4s0f0",
  "name" : "Ethernet card 1 (enp4s0f0, 1 Gb/s link)",
  "connected" : true
}, {
  "id" : "enp4s0f1",
  "name" : "Ethernet card 2 (enp4s0f1)",
  "connected" : false
}, {
  "id" : "ens5",
  "name" : "Ethernet card 3 (ens5)",
  "connected" : false
}, {
  "id" : "ens5d1",
  "name" : "Ethernet card 4 (ens5d1)",
  "connected" : false
}, {
  "id" : "lo",
  "name" : "Loopback (lo)",
  "connected" : true
} ]
```

Get list of available SDI devices

Allows you to retrieve a list of all available SDI devices whose identifiers can be used in pipeline source or output stream sink.

HTTP request

HTTP

```
GET /api/system/sdi-devices HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

Curl request

BASH

```
$ curl 'https://127.0.0.1/api/system/sdi-devices' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

Response data

Path	Type	Description
[]	Array	Array of available SDI devices.
[].id	String	Identifier of the SDI device.
[].name	String	Name of the SDI device.
[].ports	Array	Available ports in SDI device.

HTTP response

HTTP

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 293

[ {
  "id" : "aja-sdi-0",
  "name" : "AJA SDI #0",
  "ports" : [ "1", "2", "3", "4" ]
}, {
  "id" : "aja-sdi-1",
  "name" : "AJA SDI #1",
  "ports" : [ "1", "2", "3", "4", "5", "6" ]
}, {
  "id" : "aja-sdi-2",
  "name" : "AJA SDI #2",
  "ports" : [ "1", "2", "3", "4", "5", "6", "7", "8" ]
} ]
```

Get list of available NDI source devices

Allows you to retrieve a list of all currently available NDI source devices whose identifiers can be used in pipeline source. Optionally, one or more NDI groups to search in may be specified using parameter **"ndiGroup="** with a comma-separated list of groups. The default group (if not specified) is **"public"** . For instance **"cameras,studio1,10am show"** would search for a source in the three groups named.

Please note that this API call works **asynchronously**, so it may return a growing list of sources if called repeatedly, as those are gradually being discovered on the network. Typically, the first call of this method with a given NDI group(s) initializes the search and returns none or a small subset of available sources, but after two or more seconds, the complete list is retrieved, so that all future calls would return the complete set of sources.

HTTP request

HTTP

```
GET /api/system/ndi-devices?ndiGroup=public HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

Curl request

```
$ curl 'https://127.0.0.1/api/system/ndi-devices?ndiGroup=public' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

BASH

Response data

Path	Type	Description
[]	Array	Array of available NDI devices in the group.
[].name	String	Name of the NDI device.

HTTP response

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 170

[ {
  "name" : "TRANSCODER 0 (Studio 0)"
}, {
  "name" : "TRANSCODER 0 (Studio 1)"
}, {
  "name" : "TRANSCODER 1 (Studio 2)"
}, {
  "name" : "TRANSCODER 1 (Studio 3)"
} ]
```

HTTP

Perform reinstallation of the current version of the device

Triggers reinstallation process which automatically reboots machine on success. The call is synchronous. Reinstallation makes clean installation of the currently booted software version of the device. No settings are preserved - only current licenses.

HTTP request

```
GET /api/system/reinstall HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/system/reinstall' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

BASH

Response data

Path	Type	Description
state	String	State of the reinstallation after the call is processed on the machine, i.e.: "SUCCESS" or "FAILED". It can return "IN-PROGRESS" if the call is already being processed.

Path	Type	Description
errorMessage	String	Error message in a case of failure.

HTTP response

HTTP

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 48
```

```
{
  "state" : "SUCCESS",
  "errorMessage" : ""
}
```

Retrieve state of reinstallation process

It returns current state of a reinstallation process.

HTTP request

HTTP

```
GET /api/system/reinstall-state HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

Curl request

BASH

```
$ curl 'https://127.0.0.1/api/system/reinstall-state' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

Response data

Path	Type	Description
state	String	Current state of the reinstallation process. Possible values: "NOT-STARTED", "IN-PROGRESS", "FAILED", "SUCCESS".
errorMessage	String	Error message in a case of failed reinstallation process.

HTTP response

HTTP

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 48
```

```
{
  "state" : "SUCCESS",
  "errorMessage" : ""
}
```

Perform factory reset of the device

Triggers factory reset process which automatically reboots machine on success. The call is synchronous.

HTTP request

```
GET /api/system/factory-reset HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/system/factory-reset' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

BASH

Response data

Path	Type	Description
state	String	State of the factory reset after the call is processed on the machine, i.e.: "SUCCESS" or "FAILED". It can return "IN-PROGRESS" if the call is already being processed.
errorMessage	String	Error message in a case of failure.

HTTP response

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 48
```

```
{
  "state" : "SUCCESS",
  "errorMessage" : ""
}
```

HTTP

Retrieve state of factory reset process

It returns current state of a factory reset process.

HTTP request

```
GET /api/system/factory-reset-state HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

HTTP

Curl request

```
$ curl 'https://127.0.0.1/api/system/factory-reset-state' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

BASH

Response data

Path	Type	Description
state	String	Current state of the factory reset process. Possible values: "NOT-STARTED", "IN-PROGRESS", "FAILED", "SUCCESS".
errorMessage	String	Error message in a case of failed factory reset process.

HTTP response

HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 48

{
 "state" : "SUCCESS",
 "errorMessage" : ""
}

HTTP

Perform restart of main service

HTTP request

GET /api/system/restart-service HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1

HTTP

Curl request

\$ curl 'https://127.0.0.1/api/system/restart-service' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'

BASH

Response data

Path	Type	Description
message	String	Info message what is going to happen.

HTTP response

HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 70

{
 "message" : "Main program service will be restarted in a while."
}

HTTP

Perform reboot of the machine

HTTP request

HTTP

```
GET /api/system/reboot HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

Curl request

BASH

```
$ curl 'https://127.0.0.1/api/system/reboot' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

Response data

Path	Type	Description
message	String	Info message what is going to happen.

HTTP response

HTTP

```
HTTP/1.1 200 OK
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 60

{
  "message" : "The machine will be rebooted in a while."
}
```

Perform shutdown of the machine

HTTP request

HTTP

```
GET /api/system/shutdown HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Accept: application/json
Host: 127.0.0.1
```

Curl request

BASH

```
$ curl 'https://127.0.0.1/api/system/shutdown' -i -u 'admin:password' -X GET \
-H 'Accept: application/json'
```

Response data

Path	Type	Description
message	String	Info message what is going to happen.

HTTP response

HTTP/1.1 200 OK

Vary: Origin

Vary: Access-Control-Request-Method

Vary: Access-Control-Request-Headers

Content-Type: application/json

Content-Length: 60

```
{  
  "message" : "The machine will be shutdown in a while."  
}
```

Errors

Error response

Path	Type	Description
status	Number	Error status code.
error	String	Error message.

Example 1

```
DELETE /api/pipeline/7 HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Host: 127.0.0.1
```

HTTP

```
HTTP/1.1 404 Not Found
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 71

{
  "status" : 404,
  "error" : "Pipeline with id = 7 doesn't exist."
}
```

HTTP

Example 2

```
POST /api/pipeline HTTP/1.1
Content-Type: application/json
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Content-Length: 19
Host: 127.0.0.1
```

HTTP

```
{
  "source" : {}
}
```

```
HTTP/1.1 400 Bad Request
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 99

{
  "status" : 400,
  "error" : "Missing required property 'address'. (in: '{}.inputs.0.source')"
}
```

HTTP

Example 3

HTTP

```
POST /api/pipeline HTTP/1.1
Content-Type: application/json
Authorization: Basic YWRtaW46cGFzc3dvcmQ=
Content-Length: 160
Host: 127.0.0.1
```

```
{
  "source" : {
    "address" : {
      "url": "rtp://0.0.0.0:5000:lo"
    },
    "streamType" : "MPEG_TS",
    "complianceWith" : "AUTO"
  },
  "video": {}
}
```

HTTP

```
HTTP/1.1 400 Bad Request
Vary: Origin
Vary: Access-Control-Request-Method
Vary: Access-Control-Request-Headers
Content-Type: application/json
Content-Length: 96
```

```
{
  "status" : 400,
  "error" : "Missing required property 'depth'. (in: '{}.inputs.0.video')"
}
```

Last updated 2024-09-04 19:36:56 UTC