

# API Documentation

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## Parameters

### input

or not to use this input. This will be an object key if using a cloud provider, or a regular URL otherwise.

Type	Required	Default
string	Yes	

### videoProfiles

An array containing at least one video profile.

Type	Required	Default
array	Yes	

## audioProfiles

An array containing zero or more audio profiles.

Type	Required	Default
array	Yes	

## output\_container

Output container to be used. Supported values are `ts`, `mp4`, `hls`, and `silverlight` .

Type	Required	Default
string	No	<code>mp4</code>

## ts\_mode\_input\_audio\_source\_stream\_count

Audio stream count (in TS mode only).

Type	Required	Default
number	No	

## audio\_output\_path

The cloud location where audio should be stored.

Type	Required	Default
string	No	

## bucket\_output\_path

The location, within a cloud bucket, where the output should be stored in segmented mode.

Type	Required	Default
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string	No	
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## master\_variant\_mode

Whether or not to use separate audio.

Type	Required	Default
boolean	No	false

## segmented\_output\_hls

Whether to use HLS in segmented output.

Type	Required	Default
boolean	No	false

## segmented\_output\_dash

Whether to use DASH in segmented output.

Type	Required	Default
boolean	No	false

## segment\_length

The segment length in segmented output.

Type	Required	Default
number	No	

## video\_codec

Output video encoder. Supported values are h.264, mpeg2, and hevc.

Type	Required	Default
string	No	h.264

## ip\_distance

Target I/P frame distance.

Type	Required	Default
number	No	

## gop\_length

Target GOP length in seconds.

Type	Required	Default
number	No	1

## scte35\_passthrough

Use SCTE35 passthrough?

Type	Required	Default
boolean	No	false

## scte35\_pid\_remap

PID Remap.

Type	Required	Default
number	No	

## create\_tar\_file

In segmented output, whether to tar the resulting directory and store it in the same bucket specified by the bucket\_output\_path parameter. Note that this will take up more space in your bucket.

Type	Required	Default
boolean	No	

## audio\_volume

Target audio volume (0-200).

Type	Required	Default
number	No	100

## h264\_quality

Output quality. Accepted values are 'good', 'better', and 'best'. Supported values are good, better , and best.

Type	Required	Default
string	No	good

## video\_aspect\_ratio

Output video aspect ratio. Supported values are passthrough, force\_4:3, force\_16:9, invert\_aspect\_ratio, rotate\_counterclockwise , rotate\_clockwise, and rotate\_counterclockwise + invert\_aspect\_ratio.

Type	Required	Default
string	No	passthrough

## rotation\_blackness

... .

Type	Required	Default
number	No	

## closed\_captions

Write CC to output?

Type	Required	Default
boolean	No	

## force\_progressive

Force progressive?

Type	Required	Default
boolean	No	false

## keep\_fps

Preserve the framerate?

Type	Required	Default
boolean	No	true

## logo\_url

URL to an image file to use as a watermark.

Type	Required	Default
string	No	

## cloud\_credentials

See Below

Type	Required	Default
object	Yes	

# Cloud Credentials

## input

Type	Required	Default
object	Yes	

## output

Type	Required	Default
object	Yes	

## Cloud Credentials Input/Output

### cloud\_provider

The cloud provider to use

Supported values are `aws`, `oracle`, `gcloud`, `http`, `file-upload`, `igolgi-store` .

Type	Required	Default
string	Yes	<code>oracle</code>

### access\_key

Account access key.

Type	Required	Default
string	No	

### secret\_key

Account secret key.

Type	Required	Default
string	No	

### region

The region within which your target bucket is located.

Type	Required	Default
string	No	

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# tenancy\_ocid

Tenancy OCID (for oracle only)

Type	Required	Default
string	No	

# user\_ocid

User OCID (for oracle only)

Type	Required	Default
string	No	

# oci\_fingerprint

User Fingerprint (for oracle only)

Type	Required	Default
string	No	

# project\_id

Project ID (for google only)

Type	Required	Default
string	No	

# client\_email

Client email (for google only)



Type	Required	Default
string	No	

## client\_id

Client ID (for google only)

Type	Required	Default
string	No	

## private\_key\_id

Private Key ID (for google only)

Type	Required	Default
string	No	

# Audio Profiles

## audio\_codec

Audio codec to be used during transcode. Supported values are `aac`, `ac3` or `mp2`.

Type	Required	Default
string	No	<code>aac</code>

## audio\_channels

Number of audio channels on the output. Use 2 for stereo and 6 for 5.1. Supported values are 2 or 6.

Type	Required	Default
string	No	2

## audio\_bitrate

Output audio bitrate. Supported values are 32, 40, 64, 96, 128, 192, 256, 384, 448 or 768.

Type	Required	Default
string	No	256

## primary\_audio\_downmix\_to\_stereo

Downmix primary audio from 5.1 to stereo.

Type	Required	Default
boolean	No	

## source\_stream

The index of the source stream. Supported values are 1, 2, 3, 4, 5, 6, 7 or 8.

Type	Required	Default
string	No	

## dolby\_digital\_dialnorm

The dialnorm. Values range from 0 to 31 inclusive. Use 0 for passthrough.

Type	Required	Default
number	No	

# Video Profiles

output

The location, including the file name, where the output is to be sent.

Type	Required	Default
string	No	

# width

The output width in pixels.

Type	Required	Default
number	Yes	

# height

The output height in pixels

Type	Required	Default
number	Yes	

# video\_bitrate\_mode

Output video bitrate mode. Supported values are `cbr` or `vbr`.

Type	Required	Default
string	No	

# video\_bitrate

The video bitrate in kbps.

Type	Required	Default
number	Yes	



# video\_framerate

The video framerate. Supported values are 1x, 1/2x or 2x.

Type	Required	Default
string	No	1x

audio\_profiles

Type	Required	Default
string	No	

# Supported Containers and Codecs

- Input Containers: MXF, MPEG2-TS and MP4
- Output Containers: MPEG2-TS, MP4
- Input Codecs: MPEG2, ProRes, XDCAM, H.264, HEVC for video; AC3, MPEG2, AAC for audio
- Output Codecs: MPEG2, H.264 and HEVC for video; Passthrough, AAC-LC and AAC 5.1 for audio, AC3 stereo and 5.1 for audio

## Creating Jobs

## Using the API from within Python

# Retrieving a Sent Job

Job Status: {'job\_id': '4765', 'tcode\_progress': '100', 'state': 'ready', 'tcode\_time': '57.89', 'tcode\_speed': '0.0', 'job\_completed': True, 'xfer\_speed': '337.88', 'xfer\_time': '0.67', 'xfer\_progress': '100'}

Job Config: {'input': 'https://streamengine.igolgi.com/uploads/659d9ac25dc7bf7b1a7c487a971a98e8', 'videoProfiles': [{'output': 'oci://yzwhip2gci7s/igolgi-public/80d8cc2a\_bdab\_442b\_bc19\_21fe00267a34.mp4', 'width': 0, 'height': 0, 'video\_bitrate': 6000, 'video\_framerate': '1x'}], 'audioProfiles': [{'audio\_codec': 'aac', 'audio\_channels': 2, 'audio\_bitrate': 128, 'primary\_audio\_downmix\_to\_stereo': False, 'source\_stream': 1}], 'output\_container': 'mp4', 'audio\_output\_path': 'oci://yzwhip2gci7s/igolgi-public/96dbafd7\_bf4f\_45a8\_bd06\_627a4684e45b.mp4', 'separate\_audio': True, 'segmented\_output\_hls': False, 'segmented\_output\_dash': False, 'video\_codec': 'hevc', 'ip\_distance': 3, 'gop\_length': 2, 'scte35\_passthrough': False, 'scte35\_pid\_remap': -1, 'create\_tar\_file': False, 'audio\_volume': 100, 'h264\_quality': 'good', 'video\_aspect\_ratio': 'rotate\_counterclockwise + invert\_aspect\_ratio', 'rotation\_blackness': 0, 'closed\_captions': False, 'picture\_transform': 'none', 'logo\_url': None}

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