

Media Processing Center

FAQs

Issue 01
Date 2020-12-14



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1 Product Consulting

[Where Can I Use MPC?](#)

1.1 Where Can I Use MPC?

You can use MPC in **CN North-Beijing1**, **CN North-Beijing4**, and **CN East-Shanghai2** regions.

2 Billing

[How Do I Unsubscribe from MPC?](#)

[How Is a One-In Multiple-Out Transcoding Template Billed?](#)

[Why Are Fees Still Deducted from My Account Balance After I Have Bought a Transcoding Package?](#)

[Can the Length of an Output Using a Custom Template Be Deducted from a Transcoding Package?](#)

2.1 How Do I Unsubscribe from MPC?

By default, you are billed on a pay-per-use basis. If you stop using it, no fees occur. Therefore, you do not need to unsubscribe from MPC. To avoid incurring fees, if you do not want to keep the transcoded files, delete them from OBS because file storage is billed by OBS.

2.2 How Is a One-In Multiple-Out Transcoding Template Billed?

Pricing depends on the duration of files that you output. If you use a one-in-multiple-out transcoding template, you are billed for multiple outputs.

The unit price for each output depends on the codec used, output resolution, and whether Low Bitrate HD is enabled. For details, see [MPC Pricing Details](#). The following examples describe how you are billed on a pay-per-use basis in different scenarios.

Scenario 1

Transcoding template: DASH_H.264_FHD_1 input and 6 outputs with Low Bitrate HD disabled

Input video: duration: 30 minutes; resolution: 2100x1200

Output videos: Their resolution and bitrate are 1,920x1,080/6,000 kbit/s, 1,920x1,080/3,000 kbit/s, 1,280x720/2,000 kbit/s, 1,280x720/1,000 kbit/s, 854x480/600 kbit/s, and 480x270/300 kbit/s.

Unit price for each output is:

- A video whose resolution/bitrate is 1,920x1,080/6,000 kbit/s or 1,920x1,080/3,000 kbit/s is billed based on the **H.264-FHD (1920x1080) or lower** specifications.
- A video whose resolution/bitrate is 1,280x720/2,000 kbit/s or 1,280x720/1,000 kbit/s is billed based on the **H.264-HD (1280x720) or lower** specifications.
- A video whose resolution/bitrate is 854x480/600 kbit/s or 480x270/300 kbit/s is billed based on the **H.264-SD (640x480) or lower** specifications.

Transcoding fee = Output file duration x Unit price. That is, ¥0.065 x 30 x 2 + ¥0.033 x 30 x 2 + ¥0.022 x 30 x 2 = ¥7.2.

Scenario 2

Transcoding template: DASH_H.265_FHD_1 input and 6 outputs with Low Bitrate HD enabled

Input video: duration: 30 minutes; resolution: 2100x1200

Output videos: Their resolution and bitrate are 1,920x1,080/4,200 kbit/s, 1,920x1,080/2,100 kbit/s, 1,280x720/1,400 kbit/s, 1,280x720/700 kbit/s, 854x480/500 kbit/s, and 480x270/200 kbit/s.

Unit price for each output is:

- A video whose resolution/bitrate is 1,920x1,080/4,200 kbit/s or 1,920x1,080/2,100 kbit/s is billed based on the **H.265-Low Bitrate HD-FHD (1920x1080) or lower** specifications.
- A video whose resolution/bitrate is 1,280x720/1,400 kbit/s or 1,280x720/700 kbit/s is billed based on the **H.265-Low Bitrate HD-HD (1280x720) or lower** specifications.
- A video whose resolution/bitrate is 854x480/500 kbit/s or 480x270/200 kbit/s is billed based on the **H.265-Low Bitrate HD-SD (640x480) or lower** specifications.

Transcoding fee = Output file duration x Unit price. That is, ¥0.977 x 30 x 2 + ¥0.489 x 30 x 2 + ¥0.326 x 30 x 2 = ¥107.52.

Scenario 3

Transcoding template: DASH_H.265_FHD_1 input and 6 outputs with Low Bitrate HD and image enhancement enabled

Input video: duration: 30 minutes; resolution: 2100x1200

Output videos: Their resolution and bitrate are 1,920x1,080/4,200 kbit/s, 1,920x1,080/2,100 kbit/s, 1,280x720/1,400 kbit/s, 1,280x720/700 kbit/s, 854x480/500 kbit/s, and 480x270/200 kbit/s.

Unit price for each output is:

- A video whose resolution/bitrate is 1,920x1,080/4,200 kbit/s or 1,920x1,080/2,100 kbit/s is billed based on the **H.265-Low Bitrate HD-FHD (1920x1080) or lower** specifications.
- A video whose resolution/bitrate is 1,280x720/1,400 kbit/s or 1,280x720/700 kbit/s is billed based on the **H.265-Low Bitrate HD-HD (1280x720) or lower** specifications.
- A video whose resolution/bitrate is 854x480/500 kbit/s or 480x270/200 kbit/s is billed based on the **H.265-Low Bitrate HD-SD (640x480) or lower** specifications.

The total cost in this scenario is twice that in scenario 2:

$$(\text{¥}0.977 \times 30 \times 2 + \text{¥}0.489 \times 30 \times 2 + \text{¥}0.326 \times 30 \times 2) \times 2 = \text{¥}215.04$$

2.3 Why Are Fees Still Deducted from My Account Balance After I Have Bought a Transcoding Package?

The transcoding package you bought maybe does not match your transcoding needs. MPC provides four types of transcoding packages: H.264, H.265, H.264 (low bitrate HD enabled), and H.265 (low bitrate HD enabled). Before buying a transcoding package, note:

- A transcoding package can only be applied to media transcoding. Packaging and GIF converting are billed on a pay-per-use basis.
- Transcoding packages cannot be used across regions. For example, if you buy a transcoding package in the **CN North-Beijing1** region but you want to use it in the **CN North-Beijing4** region, then your transcoding package cannot be applied to transcoding in the **CN North-Beijing4** region.
- A transcoding package cannot be used across different codecs. For example, if you buy an H.264 package or an H.264 (low bitrate HD enabled) package but the codec is set to H.265, transcoding fees can only be deducted from your account balance.
- Transcoding packages cannot be mixed up. For example, if you buy an H.264 or H.265 package but low bitrate HD is enabled, then your transcoding package cannot be used.

If the fault persists, [submit a service ticket](#).

2.4 Can the Length of an Output Using a Custom Template Be Deducted from a Transcoding Package?

Yes. Whether a transcoding package can be used is irrelevant to transcoding template but depends on video codec and whether Low Bitrate HD is enabled. For details, see [MPC Pricing Details](#).

3 Upload

[What Can I Do If I Can't See a Bucket During Cloud Resource Authorization?](#)

[What Can I Do If the Bucket for Storing the Input Files Is Not in the Same Region as MPC?](#)

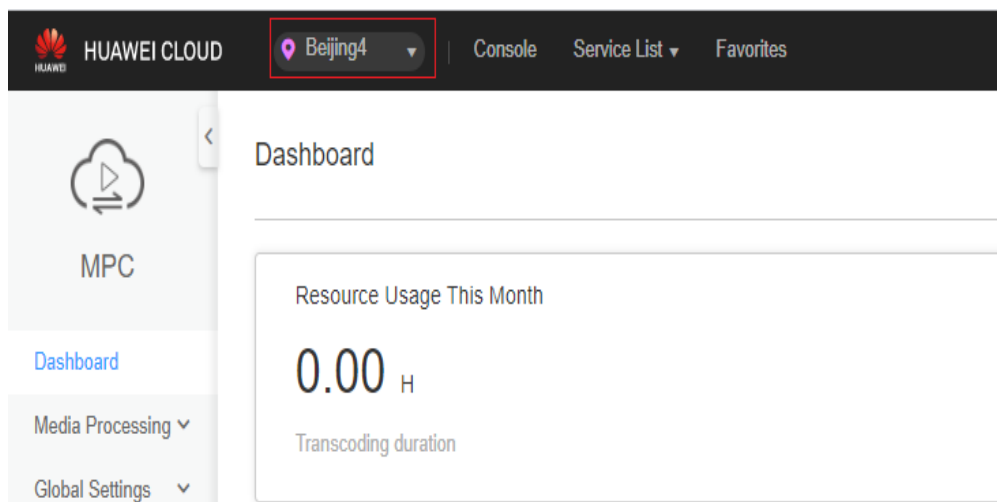
3.1 What Can I Do If I Can't See a Bucket During Cloud Resource Authorization?

The list of buckets in your region is supposed to be displayed on the **Cloud Resource Authorization** page. If you do not see the bucket list, perform the following steps to locate the fault.

Step 1 Check whether the bucket is in the same region as MPC.

1. Log in to the **MPC console** and view where MPC is deployed. See **Figure 3-1**.

Figure 3-1 MPC region



2. Log in to the **OBS console** and view the region where the OBS bucket is located. See **Figure 3-2**.

Figure 3-2 Region where an OBS bucket is deployed

Bucket Name	Storage Class	Region	Used Capacity
obs-b00389584	Standard	CN North-Beijing4	0 byte
obs-4ec0	Standard	CN North-Beijing1	1.51 MB

3. Check whether the two regions are consistent.

If they are different, change the region where MPC is deployed or **create a bucket** in which you want MPC to do the transcoding.

Step 2 Log in to the OBS console and check whether the bucket is created in the same region as MPC.

- If no buckets have not been created, **create one**. Then you will see the bucket on the **Cloud Resource Authorization** page.
- If you have already created a bucket but the problem persists, contact technical support by **submitting a service ticket**.

----End

3.2 What Can I Do If the Bucket for Storing the Input Files Is Not in the Same Region as MPC?

Handle the problem as follows:

1. Switch the region of MPC to the same region as the OBS bucket. MPC supports a limited number of regions. If MPC is not available in the region where the OBS bucket is located, go to **2**.
2. Use cross-region replication of OBS to replicate video files to an OBS bucket in the region where MPC is located. For details, see **Cross-Region Replication**.

4 Transcoding

[What Formats Does Transcoding Support?](#)

[What Can I Do If Transcoding Fails?](#)

[Can a Transcoding Task Have Multiple Outputs?](#)

[What Is a System Template? What Is It Used for?](#)

[How Do I Download Output Videos?](#)

[What Are the Differences Between DASH, HLS, and MP4 Videos?](#)

[How Do I Share Transcoded Videos?](#)

[How Do I Determine Whether Source Videos Can Be Transcoded to SD, HD, and UHD Videos?](#)

[Why Is There Only Audio but No Image After Video Transcoding?](#)

[Why Can't I Find My OBS Bucket When Creating a Transcoding Task?](#)

[How Do I Overwrite the Input Video File with the Output Video File?](#)

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[How Do I Configure Transcoding Event Notifications?](#)

[Can a Low-resolution Video Be Transcoded to a High-resolution One?](#)

4.1 What Formats Does Transcoding Support?

Table 4-1 lists available transcoding formats.

Table 4-1 Supported transcoding formats

Feature	Parameter	Description
File format	Input file format	MP4, TS, MOV, FLV, MPG, MXF, WMV, ADTS, AVI, MKV, MPEG, GIF, and WAV
	Output file format	DASH, HLS, TS, and MP4
Video codec	Input file encoding format	H.264, H.265, MPEG-2, MPEG-4, MJPEG, WMV1/2/3, and Proress422
	Output file encoding format	H.264 and H.265
Video resolution	Common video resolutions	4096x2160, 3840x2160, 2560x1600, 2048x1536, 2560x1440, 2048x1152, 2048x1080, 1920x1080, 1440x1080, 1280x1080, 1280x720, 1280x544, 720x576, 854x480, and 720x480
Video bitrate	VBR (preferred)	It is recommended that the average bitrate for 4K (30fps) video be over 80 Mbit/s, 1,080p video over 20 Mbit/s, 720p video over 12 Mbit/s, and 480p video over 8 Mbit/s.
	CBR	It is recommended that the bitrate for 1,080p video be about 30 Mbit/s, 720p video over 15 Mbit/s, and 480p video over 10 Mbit/s.
Video frame rate	Fixed frame rate	23.98/24, 25, and 29.97/30. The variable frame rate is not supported.
Other video requirements	Adaptive I frame	It is recommended that the maximum I frame interval be less than 10s. Fixed I frame intervals are supported.
	B frame	It is recommended that the maximum number of consecutive B frames be less than 6.
	Reference frame	It is recommended that the number of reference frames be less than 5.
	Interleaving encoding	You are advised to provide progressive source video. Only 2:3 pull-down is supported.
Audio	Input audio file encoding format	AAC, AC3, EAC3, HE-AAC, MP2, MP3, PCM (s161e, s16be, s241e, s24be, DVD), and WMA
	Output audio file format	MP3, MP4, and ADTS

Feature	Parameter	Description
	Audio sampling rate	22.05 kHz, 32 kHz, 44.1 kHz, 48 kHz, or 96 kHz
	Audio channel	<ul style="list-style-type: none">• 5.1 surround sound, stereo, and mono are supported for mono audio track.• Mono is supported for multiple audio tracks.
Subtitle	Subtitling	Embedded subtitles and independent subtitles (SRT)

4.2 What Can I Do If Transcoding Fails?

If the transcoding fails, an error message is displayed. You can rectify the fault based on the error message. [Table 4-2](#) describes the common error messages and solutions.

Table 4-2 Common errors

Error Message	Cause	Solution
System error. Contact technical support.	System fault	Submit a service ticket.
Failed to obtain the input file. Check the path.	Failed to obtain the input file.	Check whether the input file path is correct.
The input file does not exist.	The input file does not exist.	Check whether the input file exists.
Failed to obtain the subtitle file.	Failed to obtain the subtitle file during transcoding.	<ul style="list-style-type: none">• Check whether the subtitle format meets the requirements (SRT).• Check whether the subtitle path is correct.• Check whether the subtitle file exists.
Failed to open the input file.	The frame rate of the input video is incorrect.	Check whether the frame rate of the input file is one of them: 23.98/24, 25, and 29.97/30. The variable frame rate is not supported.
The file format is not supported.	The file format is not supported.	Check whether the input file format is one of them: MP4, TS, MOV, FLV, MPG, MXF, WMV, ADTS, AVI, MKV, MPEG, GIF, and WAV.

Error Message	Cause	Solution
The user resource exceeds the retention period and the service is unavailable.	OBS is suspended due to arrears.	Log in to the Billing Center and top up your account.
Failed to obtain media files in an OBS bucket.	KMS encryption has been enabled for the OBS bucket.	Log in to the OBS console , choose Overview > Basic Configurations , and disable default encryption.

4.3 Can a Transcoding Task Have Multiple Outputs?

Yes. A video file can be transcoded into video files of multiple resolutions and bitrates to meet the playback requirements of different devices and different network speeds.

Compared with one-in one-out transcoding, one-in multiple-out transcoding has the following features to save you a lot of time:

- Only one task is created.
- The input file is read and analyzed only once.
- The input file is decoded only once.
- Encoding information is reused when generating multiple outputs.

4.4 What Is a System Template? What Is It Used for?

MPC has a large number of built-in transcoding templates with formats, resolution, and codecs preconfigured. Therefore, using a system template can save you much time and reduce transcoding failures due to incorrect transcoding settings. You can choose **Global Settings > System Templates** on the MPC console to view system templates.

4.5 How Do I Download Output Videos?

Procedure

1. Log in to the [MPC console](#).
2. In the navigation pane, choose **Media Processing > Transcoding**.
3. Locate the target transcoding task and click the output path in the **Output** column to switch to the OBS console.

ID	Status	Start/End Time	Input	Output	Operation
Task ID: 21119677 Template ID: 7901950	Completed	Start Time: 2020/4/18 09:47:12 End Time: 2020/4/18 09:48:12	Bucket Name: mpc-test Input File Name: inputtest.mp4	Bucket Name: mpc-test Output Path: s3://989587671421b9898405175e725d0	Delete
Task ID: 21119657 Template ID: 7901761	Completed	Start Time: 2020/4/18 09:44:49 End Time: 2020/4/18 09:45:49	Bucket Name: mpc-test Input File Name: test_H_265_1280X720_HEAACV1_1411.mp4	Bucket Name: mpc-test Output Path: ..	Delete

4. Locate the transcoded file and click **Download** in the **Operation** column.

4.6 What Are the Differences Between DASH, HLS, and MP4 Videos?

Videos in different formats are packaged using different standards. Their playback experience and traffic usage are different as well. [Table 4-3](#) lists the differences.

Table 4-3 Differences

Video Format	Playback Experience	Traffic Usage
DASH	<ul style="list-style-type: none">• Videos are segmented and played by segment. Video starts quickly with less freezing.• If you drag the time axis to any time point, the corresponding segment can be quickly located and played.	Traffic usage is low.
HLS	Similar to DASH	The overall traffic usage is low because only the segment is downloaded if you want to play a single segment. If a video is at a low bitrate, traffic usage is relatively high due to high packaging costs.
MP4	<ul style="list-style-type: none">• The header file is large, and data is cached during download. As a result, video starts slowly.• If you drag the time axis to any time point, it takes some time to cache.• Most browser clients can play MP4 videos.	Traffic usage is high. If you drag the time axis to a time point, the entire header file still needs to be downloaded, which consumes a large amount of traffic. You are advised to use this format for short-form videos.

4.7 How Do I Share Transcoded Videos?

A transcoded video is stored in the specified OBS path. You can log in to the [OBS console](#) to view and share the file. For details about how to share a file, [Sharing a File](#).

You can also perform the following operations to view the transcoded video on the MPC console and switch to the OBS console:

Step 1 Log in to the [MPC console](#).

Step 2 In the navigation pane, choose **Media Processing > Transcoding**.

Step 3 Locate the target transcoding task and click the output path in the **Output** column to go to the OBS path.

ID	Status	Start/End Time	Input	Output	Operation
Task ID: 21110677 Template ID: 7001058	Completed	Start Time: 2020/4/18 09:47:12 End Time: 2020/4/18 09:48:12	Bucket Name: mpc-test Input File Name: input/test.mp4	Bucket Name: mpc-test Output Path: 62e482967671421b9000405175e7c5d0	Delete
Task ID: 21110657 Template ID: 7000761	Completed	Start Time: 2020/4/18 09:44:49 End Time: 2020/4/18 09:45:49	Bucket Name: mpc-test Input File Name: test_H_265_1280X720_HEAACV1_141.mp4	Bucket Name: mpc-test Output Path: /	Delete

Step 4 Locate the video file to be shared and click **Share** in the **Operation** column. In the displayed **Share File** dialog box, click **Copy Link** to share the link to other users.

For details about how to set the validity period of a sharing URL, see [Sharing a File](#).

----End

4.8 How Do I Determine Whether Source Videos Can Be Transcoded to SD, HD, and UHD Videos?

The viewing experience of a transcoded high-resolution video is similar to that of the source video. Therefore, you are advised to select a transcoding template in which resolution is close to that of the source video.

- UHD: 1080x1920
- HD: 720x1280
- SD: 480x854/480x720
- LD: 270x480/270x406

4.9 Why Is There Only Audio but No Image After Video Transcoding?

It is possible that you selected an audio output format or **Audio only** when configuring a transcoding template.

Log in to the [MPC console](#) to check:

- Choose **Media Processing > Transcoding**. In the task list, check whether the transcoding template is an audio template.
- Choose **Global Settings > Custom Templates/Custom Template Groups** and check whether **Audio only** is selected in your transcoding template.

If the fault persists, [submit a service ticket](#) to contact technical support.

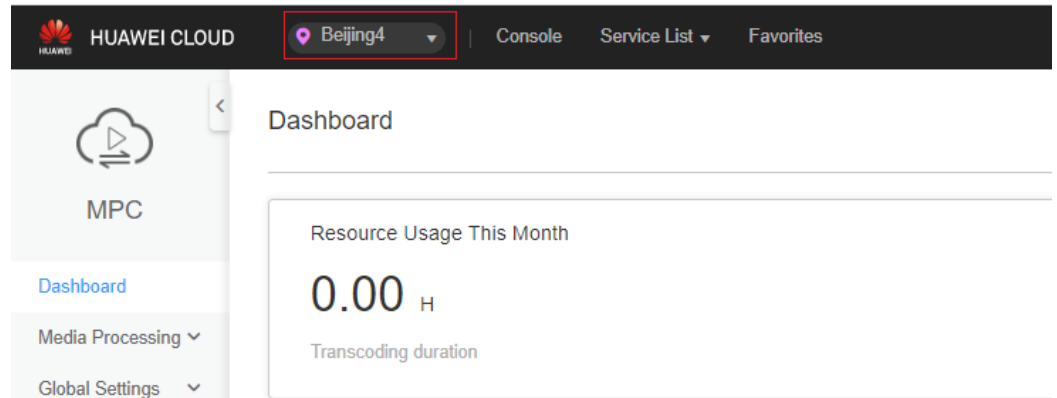
4.10 Why Can't I Find My OBS Bucket When Creating a Transcoding Task?

The possible causes are:

- You have not created an OBS bucket in the same region as MPC.

- a. Log in to the **MPC console**. See **Figure 4-1**. Check the region where MPC is located.

Figure 4-1 MPC region

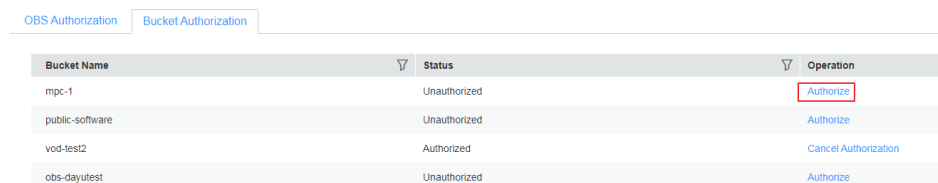


- b. Log in to the **OBS console**. In the bucket list, check whether an OBS bucket in the same region as MPC exists.

Figure 4-2 Region where an OBS bucket is deployed

Bucket Name	Storage Class	Region	Used Capacity
obs-b00389584	Standard	CN North-Beijing4	0 byte
obs-4ec0	Standard	CN North-Beijing1	1.51 MB

- c. If yes, go to the next step. Otherwise, **create a bucket** in the same region as MPC and then save audio and video files to be transcoded in this bucket.
- Your OBS bucket is not authorized.
 - a. Log in to the **MPC console**.
 - b. In the navigation pane, choose **Cloud Resource Authorization**.
 - c. Click the **Bucket Authorization** tab.
 - d. Select the input and output buckets and click **Authorize**.



If the fault persists, **submit a service ticket** to contact technical support.

4.11 How Do I Overwrite the Input Video File with the Output Video File?

This operation is not available on the MPC console. You can call APIs to implement this function:

- Step 1** Upload an input video file to OBS and record the bucket name, file path, and file name. For details about how to upload a video file, see **Uploading Media Files**.

- Step 2** Call the API for [creating a transcoding task](#). Set **output** to **input** and **output_filenames** to the input file name.
- Step 3** Call the API for [querying transcoding tasks](#). If a message indicating that the transcoding is successful is displayed, log in to the [OBS console](#) to download the output file based on its path.

----End

4.12 How Long Does a Transcoding Task Take?

It depends on the duration of input files, resolution, bitrate, and transcoding template. If there are too many transcoding tasks, you have to wait in queue.

4.13 Does MPC Support Encrypting Media Files?

Yes. You can call the API for [creating a transcoding task](#) or [creating an encryption task](#) and set **key** and **url** in the request to encrypt media files.

```
"encryption": {  
  "hls_encrypt": {  
    "key": "aigPLJhffXBnERs",  
    "url": "https://vod.cn-north-4.myhuaweicloud.com/encrypt/getkey",  
    "iv": "yCmE666N3YAq30SN",  
    "algorithm": "AES-128-CTR"  
  }  
},
```

4.14 How Do I Configure Transcoding Event Notifications?

To keep track of the status of a transcoding task, you can configure event notifications before submitting a transcoding task. For details, see [Configuring Event Notifications](#).

4.15 Can a Low-resolution Video Be Transcoded to a High-resolution One?

Yes. You can call the API for [creating a transcoding task](#) and set **upsample** to **1** to transcode a low-resolution video to a high-resolution one.

5 Notifications

[Where Can I Set a Message Topic? How Do I Configure Event Notifications?](#)

5.1 Where Can I Set a Message Topic? How Do I Configure Event Notifications?

Simple Message Notification (SMN) is an application service provided by HUAWEI CLOUD. If you need to use event notifications, you need to call the SMN service. You can receive five types of notifications, including transcoding completed, transcoding started, snapshot captured, packaging completed, and GIF created, by template messages or JSON messages. For details, see [Configuring Event Notifications](#).

6 Packaging/GIF Converting

[What Are the Supported Input and Output Formats for Packaging?](#)

[What Are the Supported Input Formats for GIF Converting?](#)

6.1 What Are the Supported Input and Output Formats for Packaging?

- Supported input formats: MP4, FLV, and TS
- Supported output formats: HLS and MP4

6.2 What Are the Supported Input Formats for GIF Converting?

MP4, TS, MOV, FLV, MPG, MXF, WMV, ADTS, AVI, MKV, MPEG, and WAV

7 Frame Capture

[How Do I Extract Frames from a Video?](#)

[What Can I Do If Frame Capture Fails?](#)

7.1 How Do I Extract Frames from a Video?

Frame capture extracts frames from a video based on the sampling interval and saves them as image files. You can call an API or transcoding SDK to extract frames from a video.

API Calling

MPC provides frame capture APIs. You can extract frames from a source video or video being transcoded.

Solution 1: Extract frames from a video being transcoded.

- Step 1** Upload a source video to OBS. For details, see [Uploading Media Files](#).
- Step 2** Call the API for [creating a transcoding task](#). Set **input**, **output**, **IDtrans_template_id**, and **thumbnail** to start transcoding.
- Step 3** Call the API for [querying transcoding tasks](#). If a message indicating that the transcoding is successful is displayed, log in to the [OBS console](#) to download the output file based on its path.

----End

Solution 2: Extract frames from a source video.

- Step 1** Upload a source video to OBS. For details, see [Uploading Media Files](#).
- Step 2** Call the API for [creating a snapshot task](#) and set input and output parameters to start frame capture.
- Step 3** Call the API for [querying snapshot tasks](#). If a message indicating that frame capture is successful is displayed, log in to the [OBS console](#) to download the output file based on its path.

----End

SDK Calling

By using the transcoding SDK, you can extract frames from a source video or video being transcoded.

Solution 1: Extract frames from a video being transcoded.

- Step 1** Upload a source video to OBS. For details, see [Uploading Media Files](#).
- Step 2** [Create a transcoding task](#) to start transcoding.
- Step 3** [Query transcoding tasks](#). If a message indicating that the transcoding is successful is returned, log in to the [OBS console](#) and download the output file based on its path. For details, see [Downloading a File](#).

----End

Solution 2: Extract frames from a source video.

- Step 1** Upload a source video to OBS. For details, see [Uploading Media Files](#).
- Step 2** [Create a snapshot task](#). Set output parameters and snapshot parameters to start frame capture.
- Step 3** [Query snapshot tasks](#). If a message indicating that frame capture is successful is returned, log in to the [OBS console](#) and download the output file based on its path. For details, see [Downloading a File](#).

----End

7.2 What Can I Do If Frame Capture Fails?

[Table 7-1](#) lists the common errors and causes for failed frame capture. For other errors, [submit a service ticket](#).

Table 7-1 Error codes

Error Code	Error Message	Cause
MPC.10061	Capturing snapshots at non-fixed intervals is not supported. Change the interval to a fixed interval.	Snapshots cannot be taken at a non-fixed interval.
MPC.10062	The video codec is incorrect in the snapshot scenario.	The encoding format of the input video is not supported. Supported encoding formats are MPEG-2, H.264, H.265, and Prores422.
MPC.10063	The video format is incorrect in the snapshot scenario.	The packaging format of the input video is not supported. Supported packaging formats are MP4, MPG, MOV, MXF, FLV, and MPEG-TS.

8 Video Watermark

[How Do I Add an Image Watermark to a Video?](#)

[How Do I Add a Text Watermark to a Video?](#)

8.1 How Do I Add an Image Watermark to a Video?

An image watermark is an image (usually a logo or nickname) laid out on your video to increase brand awareness and protect your video. You can call the API or transcoding SDK to watermark your video.

API Calling

- Step 1** Upload an image and source video to OBS and record the image address, including the bucket name, region where the bucket is located, and image path. For details, see [Uploading Media Files](#).
- Step 2** Call the API for [creating a watermark template](#).
- Step 3** Call the API for [creating a transcoding task](#). Set **input**, **output**, and **watermarks**.
- Step 4** Call the API for [querying transcoding tasks](#). If a message indicating that the transcoding is successful is displayed, log in to the [OBS console](#) to download the output file based on its path.

----End

SDK Calling

- Step 1** Upload an image and source video to OBS and record the image address, including the bucket name, region where the bucket is located, and image path. For details, see [Uploading a File](#).
- Step 2** [Create a watermark template](#) and record the watermark template ID.
- Step 3** [Create a transcoding task](#). Set input and output parameters (input and output buckets, region, and input and output file paths) and watermark parameters (image address and template information) to start transcoding.

- Step 4** [Query transcoding tasks](#). If a message indicating that the transcoding is successful is returned, log in to the [OBS console](#) and download the output file based on its path. For details, see [Downloading a File](#).

----End

8.2 How Do I Add a Text Watermark to a Video?

To add a text watermark to a video:

- Step 1** Upload a source video to OBS and record its bucket name and path. For details, see [Uploading Media Files](#).
- Step 2** Call the API for [creating a transcoding task](#). Set **input**, **output**, **text_context**, and **text_watermark**. **text_context** must be a value encoded using BASE64.
- Step 3** Call the API for [querying transcoding tasks](#). If a message indicating that the transcoding is successful is displayed, log in to the [OBS console](#) to download the output file based on its path.

----End

9 API and SDK Usage

[Can I Deliver Transcoding Tasks in Batches?](#)

[How Long Does a Task Take from Submission to Execution?](#)

[Failed to Transcode MP3 Files and A Message Is Displayed Indicating that the Source Width and Height Are Incorrect](#)

[Why Is "The token must be updated" Returned When I Call an API?](#)

[Why Is a Message Displayed Indicating that the Token Is Invalid When I Call an API?](#)

[What Can I Do If an Error Message Is Displayed Indicating that the Input or Output OBS Path Is Invalid When I Use the SDK or API?](#)

[Does MPC Support Video Rotation?](#)

9.1 Can I Deliver Transcoding Tasks in Batches?

To ensure fairness among all tenants, transcoding tasks cannot be delivered in batches. You need to create transcoding tasks one by one. You can develop the batch task delivery function in the application system.

9.2 How Long Does a Task Take from Submission to Execution?

If few tasks are submitted, the tasks are executed immediately. If a large number of tasks are submitted simultaneously, some tasks line up.

9.3 Failed to Transcode MP3 Files and A Message Is Displayed Indicating that the Source Width and Height Are Incorrect

It is possible that a watermark is set in your transcoding template. Delete the watermark and perform transcoding again. For details about how to delete a watermark, see [Deleting a Watermark Template](#).

9.4 Why Is "The token must be updated" Returned When I Call an API?

It is possible that:

- The token you obtained has expired. The validity period of a token is 24 hours.
- Your account was in arrears. After your account is topped up, the token is not obtained again.

If this message is displayed, you need to obtain a new token from IAM. For details, see [Obtaining a User Token](#).

9.5 Why Is a Message Displayed Indicating that the Token Is Invalid When I Call an API?

It is possible that the **scope** parameter of the token was set to **domain** when you [obtain a user token](#). The token is used for global-level services, but MPC is a project-level service. Therefore, you need to set **scope** to **project**.

9.6 What Can I Do If an Error Message Is Displayed Indicating that the Input or Output OBS Path Is Invalid When I Use the SDK or API?

It is possible that the region where the OBS bucket is located is different from the region where the token is obtained. MPC does not support cross-region transcoding. You need to set the region where the OBS bucket is located to the region where the token is obtained.

9.7 Does MPC Support Video Rotation?

Yes. You can call the API or transcoding SDK to set video control parameters during transcoding to rotate your video.

API Calling

- Step 1** Upload a source video to OBS. For details, see [Uploading Media Files](#).
 - Step 2** Call the API for [creating a transcoding task](#). Set **input**, **output**, **IDtrans_template_id**, and **video_process** to start transcoding.
 - Step 3** Call the API for [querying transcoding tasks](#). If a message indicating that the transcoding is successful is displayed, log in to the [OBS console](#) to download the output file based on its path.
- End

SDK Calling

- Step 1** Upload a source video to OBS. For details, see [Uploading Media Files](#).
 - Step 2** [Create a transcoding task](#), set video control parameters, and start transcoding.
 - Step 3** [Query the transcoding task](#). If a message indicating that the transcoding is successful is displayed, log in to the [OBS console](#) to download the output file based on its path. For details, see [Downloading a File](#).
- End