

# Media Processing Service

## Console Guide

### Product Documentation



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# Console Guide

## Overview

Last updated : 2024-06-11 15:54:10

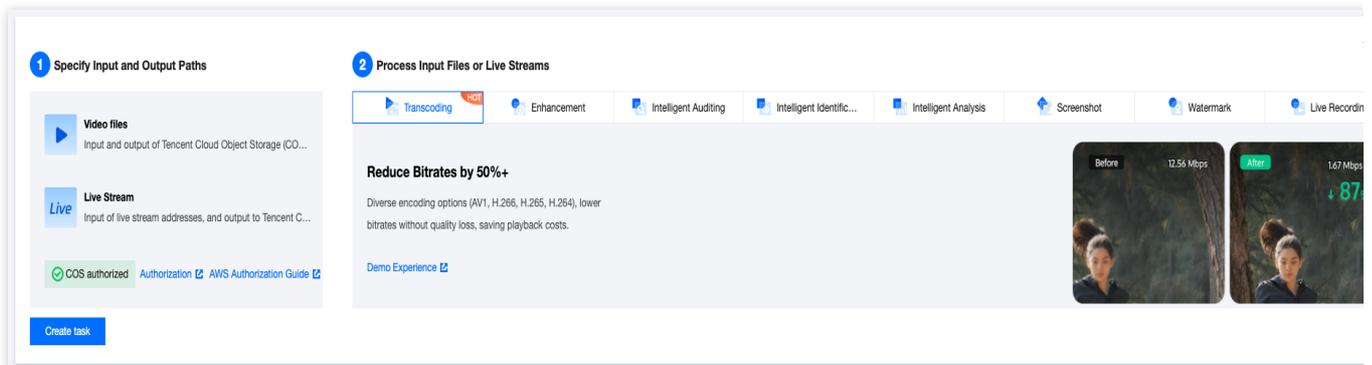
## Overview

You can find on the overview page of the MPS console a [beginner's guide](#), [product announcements](#), your [usage statistics](#), your [billing mode](#), as well as a list of [frequently read documents](#).

## Details

### Getting started

You can click **Hide** in the top right corner to hide this section and click **Getting started** to show it again.



### Product announcements

This section notifies you about product updates and new features.

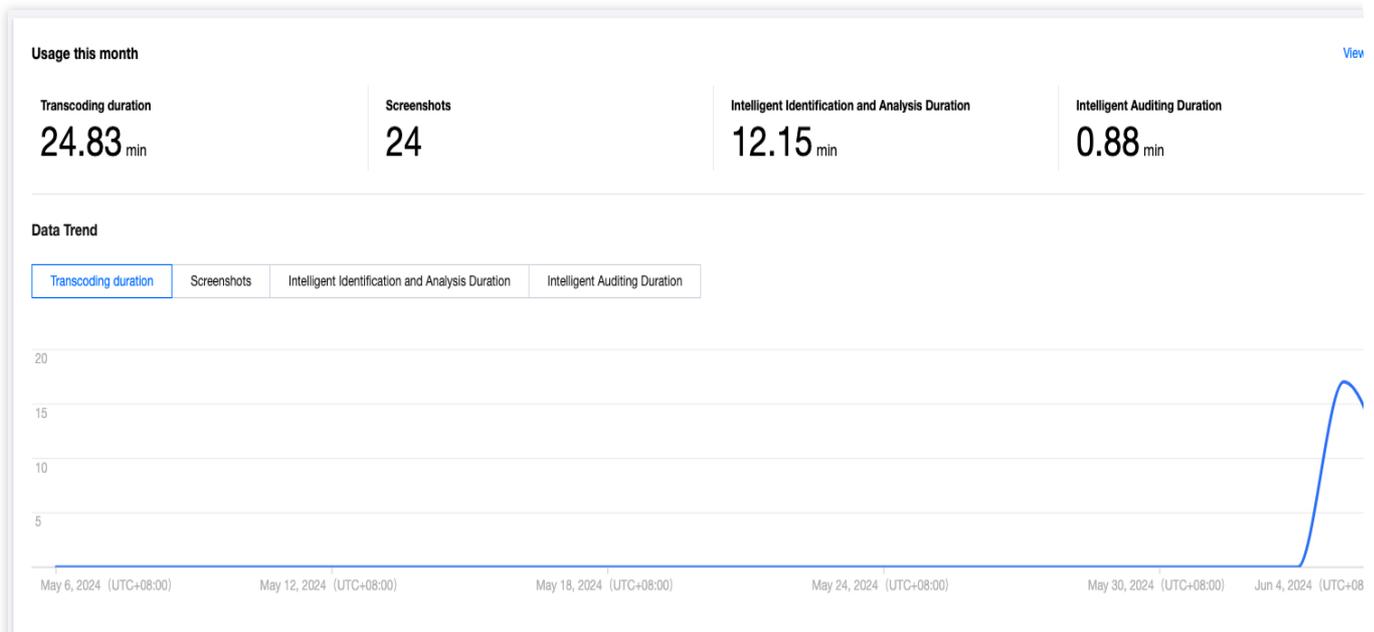
### Usage statistics

This section shows your usage statistics and usage trends in the current month. You can click **View more** to view details.

Usage statistics: Transcoding duration, number of screenshots, intelligent identification & analysis duration, and intelligent auditing duration for the current calendar month.

Usage trends: Trend charts for your transcoding duration, number of screenshots, intelligent identification & analysis duration, and intelligent auditing duration in the past 30 days.

You can click **View more** to view more details on the [Usage Statistics](#) page.



### Billing mode

This section shows the current billing mode for your account.

You may be billed daily or monthly. The daily billing mode applies by default. To switch to the monthly billing mode, please contact sales. For more information, see [Billing Overview](#).

You can click **Top up** to [top up](#) your account.

## Billing mode

Daily Billing
Top up

Fees for each day are deducted and bills are generated between 12:00 and 18:00 of the following day.

### Resource packs

This section shows the resource packs you have purchased and their usage.

You can click [Buy resource pack](#) to buy transcoding resource packs on the MPS purchase page. Resources you use will be deducted from your resource packs first.

## Documentation

This section offers links to frequently read MPS documents.

# Creating Tasks

Last updated : 2024-06-11 16:04:44

## Overview

Media Processing Service (MPS) supports three ways to initiate tasks:

**Quickly creating tasks in the console:** Processing tasks are manually initiated by selecting files or entering live streams in the console.

**Automatically triggering tasks:** Processing tasks are automatically initiated after files are uploaded to COS/AWS S3 buckets, without the need to manually create tasks in the console. Currently, only Video on Demand (VOD) files are supported.

**Initiating tasks via API:** Tasks are initiated by calling the API, suitable for batch processing scenarios.

### Create task

**Method 1 Quickly Create Task on the Console** Select VOD files or input live stream for quick processing. This feature is suitable for initiating single tasks or testing template effects.

#### Process VOD Files

Supports processing of files stored in Tencent Cloud Object Storage (COS) or AWS S3.

The processing features include audio/video transcoding, audio/video enhancement, intelligent auditing, intelligent analysis, intelligent identification, screenshot, watermark, etc.

[Create VOD Processing Task](#)

#### Process Live Streams

Input of live stream addresses for processing

The processing feature includes live recording. Stay tuned for more features.

[Create Live Processing Task](#)

**Method 2 Auto-Trigger Task** Create the orchestration and configure the trigger bucket. After the orchestration is enabled, the processing task will be triggered automatically when you upload a new file to the bucket. This feature is suitable for batch automatic processing scenarios.

[Go to configuration](#) [Documentation](#)

**Method 3 API Processing** Initiate a task by calling the API.

[API Documentation](#)

## Details

## Quickly Creating Tasks in the Console

To process audio and video files stored in COS and AWS S3, you can click **Create VOD Processing Task**. If your video files are stored in other public cloud storage products, you can also provide a file download URL as the input source, but the output needs to use Tencent COS product.

To process live streams, you can click **Create Live Stream Processing Task**.

**1 Specify Input File**

Input File Source  Tencent Cloud Object Storage (COS)  URL  AWS S3

Select Input File \*

**2 Process Input Files**

Through the orchestration, MPS feature nodes can be combined, such as enhancing the video before transcoding to form an automatic processing flow.

Click to add a feature node.

Input → Output

- Audio/Video Transcoding
- Audio/Video Enhancement
- Intelligent Analysis
- Intelligent Identification
- Intelligent Auditing
- Screenshot

Enable event notifications

**3 Specify Output Path**

Output Save Path \*

To specify the output path of a feature node separately, you can click the feature node in step 2 and configure it in More Settings > Customize Output Path.

### Specify Input Files

Select the audio and video files/live streams that need to be processed as the input source, and configure the save path for the processed output files.

For VOD media processing, you can choose audio and video files from COS or AWS S3 buckets, or provide a file download URL address.

#### Note:

If you choose to input from COS or URL, you need to complete the [Prerequisites > COS Authorization](#) steps to create a service role, allowing MPS to perform read and write operations such as downloading, transcoding, and uploading files in your COS bucket.

If you choose to input from AWS S3, you do not need to complete COS authorization, but you need to refer to the [Using Amazon S3 Buckets with MPS](#) document to create an AWS sub-account, S3 input and output buckets, SQS, etc.

For live stream media processing, you need to enter the live stream URL address (it must be a live address, supporting RTMP, HLS, FLV, etc.).

**Note:**

You need to ensure that the live stream address is correctly entered. If the live stream fails to be pulled, it will retry 3 times. If it still cannot obtain the live stream, the task will be marked as failed.

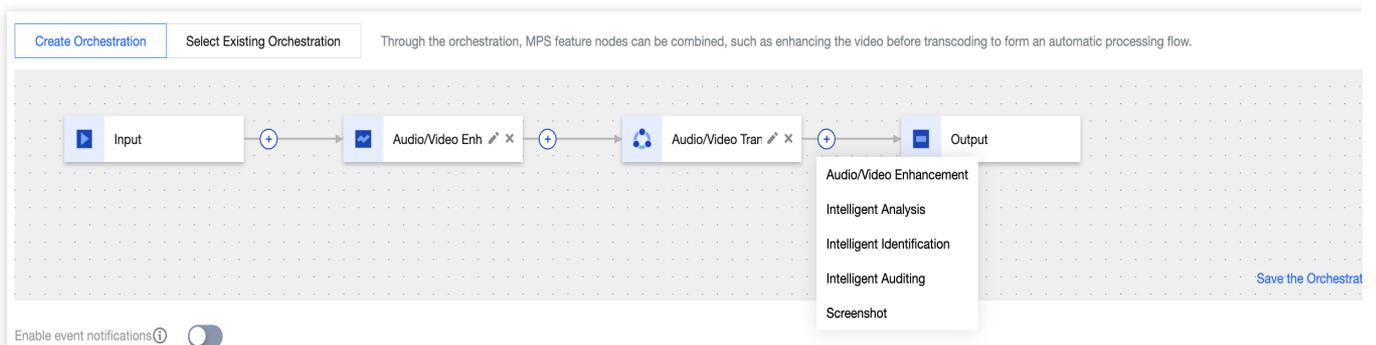
**Process Input Files****Create Orchestrations**

An orchestration is a combination of various MPS features, serving as an automated processing workflow. By clicking the

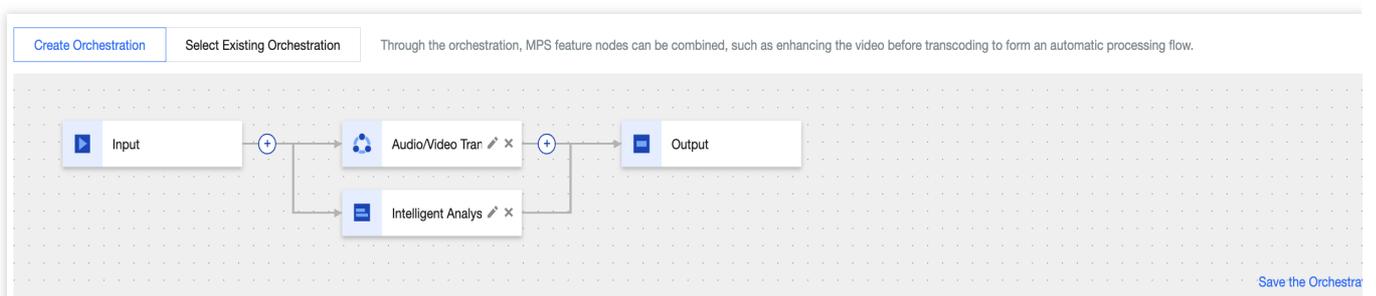


node, you can add the required features.

At least one feature node must be added. You may also, according to your needs, arrange the rich features MPS offers in series or parallel. For example, if you need to perform enhancement operations, such as enhancing the image quality and deburring, on the input file and then reduce the bitrate through transcoding and compression, you can first add an audio/video enhancement node, followed by an audio/video transcoding node.

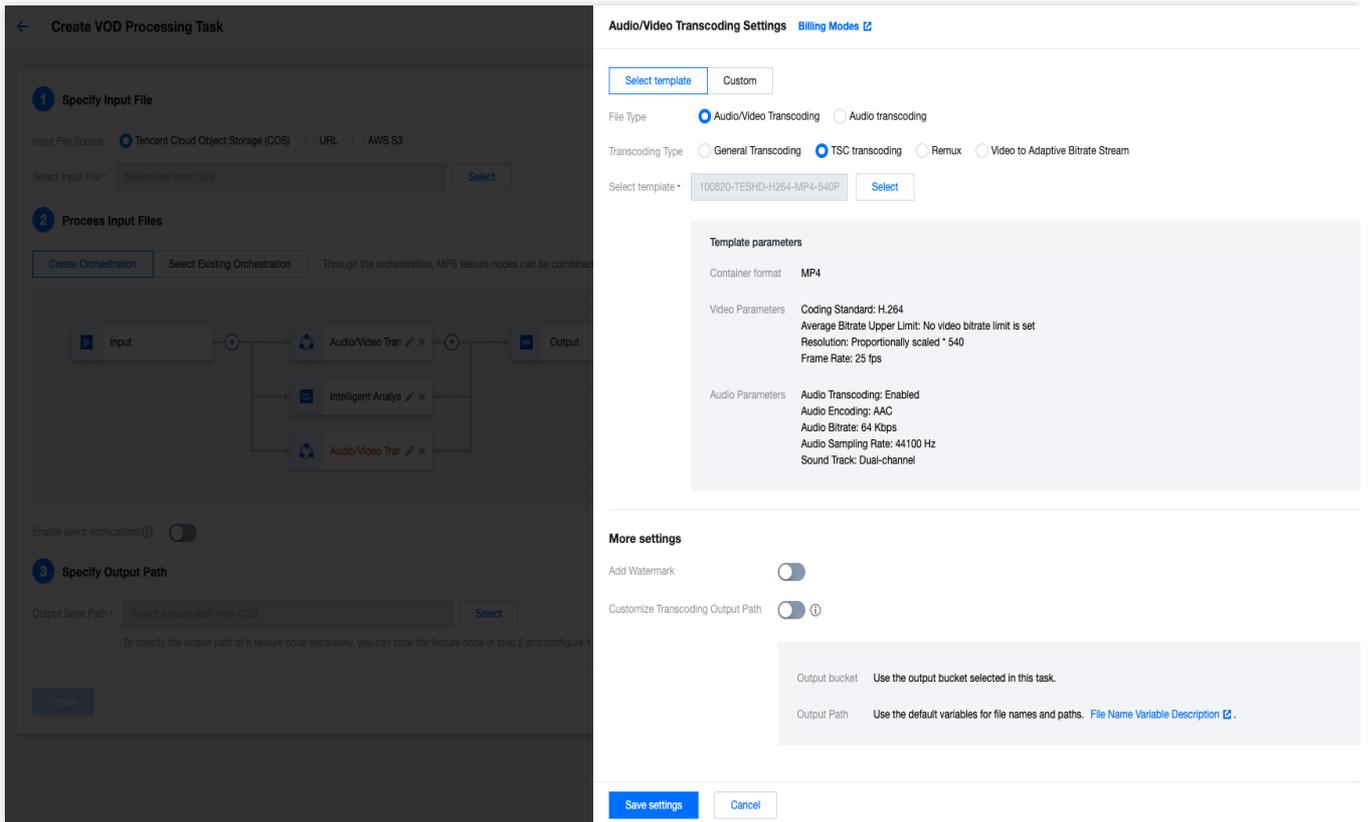


If you need to perform transcoding and intelligent analysis on the input source at the same time, you can arrange the parallel task workflow as shown below.



Each time you add a feature node, you need to set the specific parameters of that feature in the drawer floating layer.

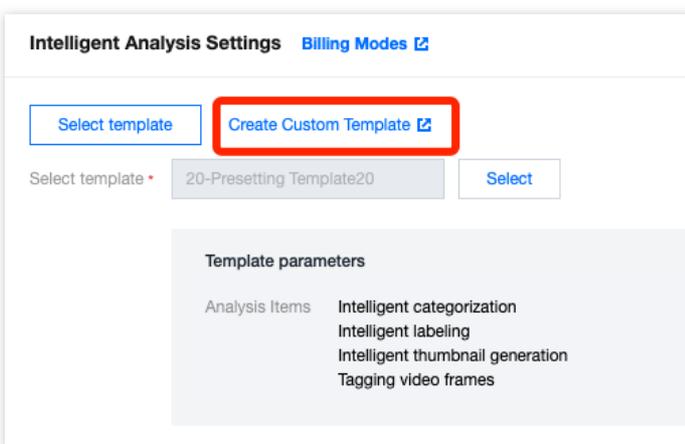
Taking the audio/video transcoding node as an example, you can choose system preset parameters or previously saved custom parameters by clicking **Select template**. You can also switch to **Custom** to directly edit the parameters. For detailed parameter configuration, refer to [Audio/Video Transcoding Template](#).



**Note:**

Currently, only audio/video transcoding and audio/video enhancement nodes offer the option to switch to **Custom** to directly edit parameters without the need to save them as templates in advance.

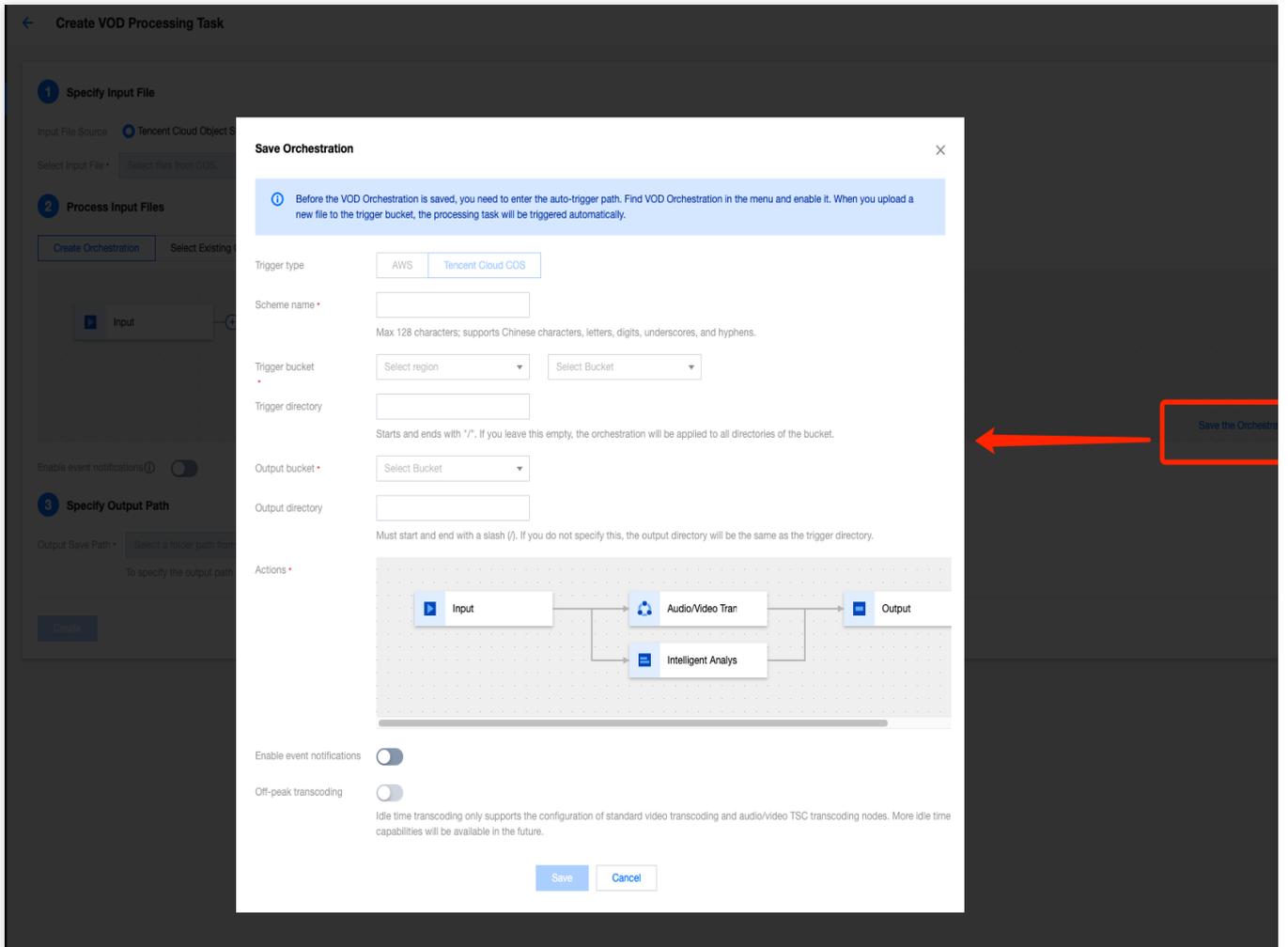
If you need to customize the parameters for other feature nodes such as intelligent analysis, identification, screenshot, etc., you can click **Create Custom Template** to enter the **Templates** page to create a template.



**Save the Orchestrations**

You can save the configured orchestrations for reuse later. The saved orchestrations can be viewed in **Orchestrations**.

When saving, you need to configure the trigger bucket, trigger directory, and other input and output paths to facilitate the subsequent automatic trigger of tasks. For details, see [Automatically Triggering Tasks](#) below in this document.



### Selecting Existing Orchestration

That is, use the previously saved orchestration flow and feature node parameters.

Through the orchestration, MPS feature nodes can be combined, such as enhancing the video before transcoding to form an automatic processing flow.

Select Existing Orchestration: 10101 - ConvMp4

```

    graph LR
      Input[Input] --> AVTran[Audio/Video Tran]
      AVTran --> Output[Output]
  
```

### Event Notification

Event notification can synchronize the progress and status of your tasks in real time during the task processing flow. If Tencent Cloud COS/URL is used as the input source, three event notification mechanisms are supported: TDMQ-CMQ callback, HTTP callback, and SCF callback. For detailed description, see [Configure Event Notification](#).

If AWS S3 is used as the input source, two event notification mechanisms are supported: Amazon SQS callback and HTTP callback. For detailed description, see [Creating an SQS queue for transcoding callbacks](#).

Enable event notifications

Callback method:  TDMQ-CMQ callback  HTTP callback  SCF callback

HTTP Callback URL:

### Specify Output Path

Specify the default save path for the output file of this task.

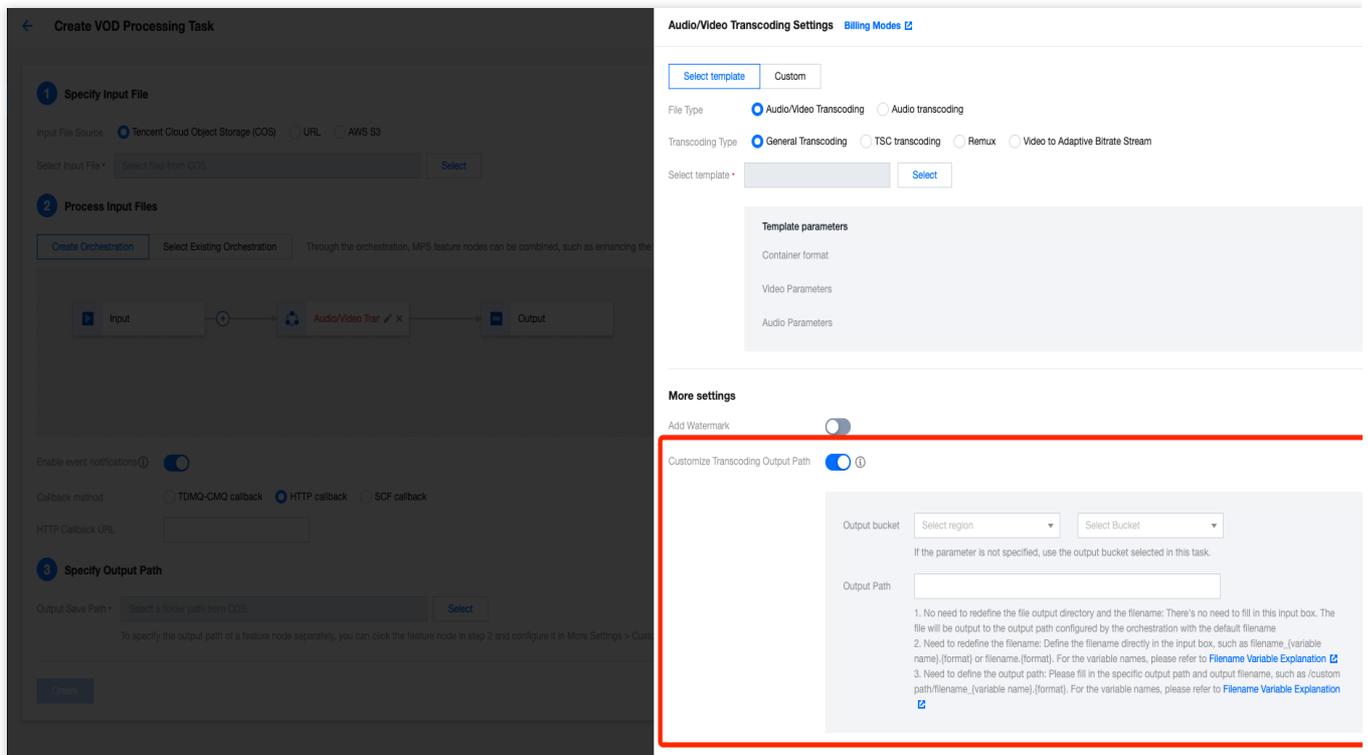
**3 Specify Output Path**

Output Save Path:

The priority order of output paths is the customized output path of each feature node in orchestration > this output path > the output path configured in orchestration. Therefore, if this path is different from the output path configured in the selected orchestration, this path will be used as the default output path for this task. If a feature node in the orchestration has a custom output path, the output file of the node will be saved separately in the custom path.

If you need to set the output path of a specific feature node in the orchestration separately, for example, you have added transcoding, enhancement, and screenshot features in the orchestration, and you expect the screenshot output file to be stored in a different path, you can click the screenshot node in the [Create Orchestration](#) step mentioned

earlier, and configure it in **More settings - Customize Screenshot Output Path**. You can also adjust the naming convention of different feature output files through this setting. For details, see [Filename Variable](#).



### Note:

The priority order of the output paths is: **custom output path for each feature node in the orchestration** > **output path configured in the task** > **output path configured in the orchestration**.

For example:

During creation of a task, an existing orchestration was selected, with the output path configured as `[ap-guangzhou]test/output1/` in the orchestration.

In the orchestration, an audio/video transcoding node and an audio/video enhancement node were configured, where the transcoding node had a custom transcoding output path configured as `[ap-guangzhou]test/output2/`.

The specified output save path for this task is `[ap-guangzhou]test/output3/`.

Therefore, in this task, the enhancement's output result will be saved in `[ap-guangzhou]test/output3/`, and the transcoding output result will be saved in `[ap-guangzhou]test/output2/`.

### Automatically Triggering Tasks

Processing tasks are automatically initiated after files are uploaded to COS/AWS S3 buckets, without the need to manually create tasks in the console. Currently, only VOD files are supported.

### Create task

**Method 1 Quickly Create Task on the Console** Select VOD files or input live stream for quick processing. This feature is suitable for initiating single tasks or testing template effects.

#### Process VOD Files

Supports processing of files stored in Tencent Cloud Object Storage (COS) or AWS S3.

The processing features include audio/video transcoding, audio/video enhancement, intelligent auditing, intelligent analysis, intelligent identification, screenshot, watermark, etc.

[Create VOD Processing Task](#)

#### Process Live Streams

Input of live stream addresses for processing

The processing feature includes live recording. Stay tuned for more features.

[Create Live Processing Task](#)

**Method 2 Auto-Trigger Task** Create the orchestration and configure the trigger bucket. After the orchestration is enabled, the processing task will be triggered automatically when you upload a new file to the bucket. This feature is suitable for batch automatic processing scenarios.

[Go to configuration](#) [Documentation](#)

**Method 3 API Processing** Initiate a task by calling the API.

[API Documentation](#)

1. Click **Go to Configure** to enter the [Orchestrations > VOD Orchestration](#) page, and then click **Create VOD Orchestration**.

2. Configure the trigger bucket and directory, output bucket and directory, the specific task workflow, etc. For detailed configuration instructions, see [VOD Orchestration Configuration Instructions](#).

← **Create orchestration**

Trigger type: AWS Tencent Cloud COS

Scheme name:   
Max 128 characters; supports Chinese characters, letters, digits, underscores, and hyphens.

Trigger bucket: Tokyo y: 3107

Trigger directory:   
Starts and ends with "/". If you leave this empty, the orchestration will be applied to all directories of the bucket.

Output bucket: y: 3107

Output directory:   
Must start and end with a slash (/). If you do not specify this, the output directory will be the same as the trigger directory.

Enable event notifications:

Off-peak transcoding:   
Currently, off-peak transcoding is only supported for audio/video transcoding actions. More will be supported in the future.

Actions:

```
graph LR; Input[Input] --> AV1[Audio/Video]; AV1 --> IA[Intelligent An]; IA --> AV2[Audio/Video]; AV2 --> Output[Output]
```

Create Cancel

3. By default, auto-trigger is disabled for the orchestration. To enable it, go back to the **Orchestrations > VOD Orchestration** page and click



to enable the auto-trigger feature.

**VOD Orchestration** Through the orchestration, MPS feature nodes can be combined, such as enhancing the video before transcoding to form an automatic processing flow.

Create a VOD orchestration and enable it. Uploading a new file in the associated bucket will automatically initiate the processing task.

Create VOD orchestration

Scheme name/ID	Scheme type	Trigger bucket	Trigger directory	Creation time	Ena... <span>⌵</span>	Operation
10101	Preset	-	-	Aug 04, 2023 03:31:24 (UTC+08:00)	<input type="checkbox"/>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
10100	Preset	-	-	Aug 04, 2023 03:31:24 (UTC+08:00)	<input type="checkbox"/>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
30826	Custom	ap-tokyo	/input/	Jun 04, 2024 16:20:31 (UTC+08:00)	<input checked="" type="checkbox"/>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
30800	Custom	ap-singapore	/mps/	Jun 03, 2024 19:33:24 (UTC+08:00)	<input checked="" type="checkbox"/>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
30799	Custom	ap-singapore	/mps/	Jun 03, 2024 19:26:33 (UTC+08:00)	<input checked="" type="checkbox"/>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
30798	Custom	ap-singapore	/mps/	Jun 03, 2024 19:03:58 (UTC+08:00)	<input checked="" type="checkbox"/>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>
23773	Custom	ap-singapore	/	Aug 29, 2023 19:59:28 (UTC+08:00)	<input checked="" type="checkbox"/>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>

Total items: 7 10 / page ⏪ ⏩ 1 / 1 page

4. By uploading the video file to be processed in the trigger bucket configured in the orchestration, the newly uploaded video will be processed automatically according to the task configuration in the orchestration, without the need to manually create tasks in the console.

On the **Orchestrations > COS Bucket** page, you can find the **trigger bucket** and **output bucket** configured in the orchestration, where you can conveniently perform operations on files, such as file upload, preview, and download:

**Media Processing Service**

- Overview
- Create Task
- Tasks
- Template and Orchestration
- Templates
- Orchestrations
  - VOD Orchestration
  - Live Orchestration
  - COS Bucket**
- Resource Usage
- Usage Statistics
- Resource Packs
- More Services
- General Settings

**COS Bucket**

Source buckets Output bucket

Source buckets / 7 / mps /

[Upload](#) [New folder](#) [Refresh](#)

File name <span>⌵</span>	Size <span>⌵</span>	Modification Time <span>⌵</span>	Operation
2600 <span>7/17/</span>	-	-	
trailer.mp4	4.17 MB	2024-06-03 18:19:26	<a href="#">Preview</a> <a href="#">Download</a>
trailer_transcode_100280.m3u8	332.00 B	2024-06-03 18:21:24	<a href="#">Preview</a> <a href="#">Download</a>
trailer_transcode_100280_0.ts	4.44 MB	2024-06-03 18:21:24	<a href="#">Preview</a> <a href="#">Download</a>
trailer_transcode_100280_1.ts	5.36 MB	2024-06-03 18:21:24	<a href="#">Preview</a> <a href="#">Download</a>
trailer_transcode_100280_2.ts	6.75 MB	2024-06-03 18:21:24	<a href="#">Preview</a> <a href="#">Download</a>

**Note:**

After auto-trigger is enabled for the orchestration, it will only affect new video files uploaded to the trigger bucket; files previously stored in the trigger bucket will not be processed automatically.

## Initiating Tasks via API

### VOD Media Processing

Initiate tasks through the API [ProcessMedia](#). The following new features have not yet launched on the console but can be experienced via API:

Media quality inspection: Supports video file format diagnosis, audio and video content detection (jitter, blur, low illumination, overexposure, black and white borders, black and white screens, screen tearing, noise, mosaic, QR code, etc.), and no-reference scoring.

### Live Stream Media Processing

Initiate a single live stream processing task via the API [ProcessLiveStream](#). It supports the following features:

Intelligent auditing: Supports image pornography detection, sensitive information detection, and audio pornography detection.

Intelligent identification: Supports identification of faces, objects, text, and speech. Automatic Speech Recognition (ASR) also supports intelligent translation and real-time subtitle conversion. It includes features such as game tagging.

Intelligent analysis: Supports real-time news splitting and more.

Quality inspection: Supports live stream format diagnosis, audio and video content detection (jitter, blur, low illumination, overexposure, black and white borders, black and white screens, screen tearing, noise, mosaic, QR code, etc.), and no-reference scoring among other features.

Live stream recording.

# Tasks

## VOD Task Management

Last updated : 2024-06-11 15:54:10

### Operation Scenarios

After you initiate a media processing task through file upload to COS bucket, running manual transcoding scripts, or API calls, you can view and manage the task in the **VOD** module.

### Operation Descriptions

#### Task List

Task ID	Status	Creation time	End time	Operation
[Redacted]	Completed	2022-08-08 16:50:04	2022-08-08 16:51:59	<a href="#">Hide details</a> <a href="#">Restart</a> <a href="#">End</a> <a href="#">Play source video</a>

Subtask No.	Subtask status	Subtask type	Start time	End time	Output	Operation
1	Successful	Transcoding	2022-08-08 16:50:04	2022-08-08 16:51:45	chenhui01-1306038592/alexander_chang--waterfront_park_portland_tr...	<a href="#">Details</a> <a href="#">Play</a> <a href="#">Download</a>
2	Successful	Transcoding	2022-08-08 16:50:04	2022-08-08 16:50:35	chenhui01-1306038592/alexander_chang--waterfront_park_portland_tr...	<a href="#">Details</a> <a href="#">Play</a> <a href="#">Download</a>
3	Successful	Screenshot	2022-08-08 16:50:04	2022-08-08 16:51:58	chenhui01-1306038592/alexander_chang--waterfront_park_portland_tr...	<a href="#">Details</a> <a href="#">View</a> <a href="#">Download</a>

Column Name	Description
Task ID	ID of the initiated primary task.
Status	The current status of the primary task, which can be: Waiting, In progress, and Completed. <b>Waiting:</b> The task is in the queue waiting for processing. <b>In progress:</b> The primary task status is In progress as long as any of its subtasks is running. <b>Completed:</b> The task status is Completed when no subtask is running.

Creation time	The point in time when the task is initiated.
End time	The point in time when the task is completed.
Operation	See the <a href="#">Task Operations</a> section below for more details.

## Task Query

1. Click [VOD](#) to go to the task management page. The list on this page displays the record of primary tasks initiated by this account.
2. You can filter the required primary task by entering a **task ID** in the search box in the upper right corner of the list or selecting the **task status** in the list.

## Task Creation

1. Go to the [VOD](#) page and click [Create task](#) to enter the task creation page.
2. Select the video file to be processed, specify the output path, transcoding template, and other necessary information, and initiate the task.

## Task Operation

The operations supported for task management include: Details, Restart, End, and Play source video.

**Details:** You can click **Details** to view the information about all subtasks of the primary task.

**Restart:** Tasks with the status of "Completed" can be restarted. You can click **Restart** to re-execute all the subtasks of the primary task.

**Terminate:** Tasks with the status of "Waiting" can be ended. You can Click **End** to cancel waiting tasks and further execution.

**Play source video:** You can click **Play source video** to obtain and play the input video file of the task.

## Subtask List

In the task list, you can click **Details** to display the information about all subtasks of the primary task. Detailed information is as follows:

Column Name	Description
Subtask No.	The incremental serial numbers that distinguish the subtasks of the primary task.
Subtask status	Status of subtasks, including: Waiting, In progress, Successful, and Failed.
Subtask type	Type of subtasks, which can be: Audio/Video Transcoding, Audio/Video Enhancement, Screenshot, etc..
Start time	Initiation time of the subtask.
End time	Completion time of the subtask.

Output	Output location of the subtask. (No output location is required when the subtask type is Intelligent Analysis, Identification, or Auditing, you can use the <a href="#">DescribeTaskDetail API</a> to query the details of execution status and the result of the subtasks)
Operation	Refer to the <a href="#">Subtask Operations</a> section below for details.

## Subtask Operations

Supported subtask operations include **Details**, **Play/View**, and **Download**.

Operation Name	Description
Details	You can check the details of a subtask.
Play/View	You can check the result of subtask processing and play the video after the subtask is processed.
Download	You can click <b>Download</b> to download the output file of this subtask. This operation is supported only for subtasks of audio/video transcoding, screenshot, and audio/video enhancement. <b>Note: If multiple screenshots are generated, only the first screenshot can be downloaded currently. In future versions, you can package multiple screenshots for download.</b>

# Live Stream Task Management

Last updated : 2024-06-11 15:54:10

## Operation Descriptions

### Live Task Creation

Click [Create task](#), follow the page instructions to configure the live stream address, scheme, and output save path. Currently, the console supports real-time recording of live streams. For detailed template configurations, refer to [Live Stream Recording Template](#).

**1 Specify Input File**

Live stream address

**2 Process Input Files**

Input → Live recording → Output

[Save the orchestration.](#)

Enable event notifications

**3 Specify Output Path**

Output Save Path

To specify the output path of a feature node separately, you can click the feature node in step 2 and configure it in More Settings > Customize Output Path.

### Note:

Make sure that the entered live stream address is correct when creating the recording task. If the live stream fails to be pulled, the pull operation will be retried three times. If the operation still fails, the recording task status changes to Failed.

### Live Task Management

Once the live task has been successfully created, it will be executed automatically. You can perform operations like viewing details or ending the task in the [task list](#).

### Live Processing Tasks

i You can create a live processing task to record live content. [Learn more](#) 🔗  
 This page only shows tasks in the past seven days

Create task

Task ID	Status <span style="font-size: 0.8em;">▼</span>	Task type <span style="font-size: 0.8em;">▼</span>	Creation time <span style="font-size: 0.8em;">↓</span>	End time <span style="font-size: 0.8em;">↕</span>	Operation
▶ 26 22...	Completed	Live recording	Jun 04, 2024 10:50:04 (UTC...	Jun 04, 2024 11:18:11 (UTC...	<a href="#">View details</a> <a href="#">End</a>
▶ 26 59...	Completed	Live recording	Jun 04, 2024 10:47:23 (UTC...	Jun 04, 2024 11:18:10 (UTC...	<a href="#">View details</a> <a href="#">End</a>

Total items: 2
10 / page

⏪
⏩
1
/ 1 page
▶

# Usage Statistics

Last updated : 2024-06-19 10:49:04

## Overview

The [Usage Statistics](#) page of the MPS console offers details about your usage of media processing services.

## Public Cloud Details

This page provides usage data for Media Processing Service in the public cloud, encompassing tasks such as audio/video transcoding, screenshots, intelligent auditing, and intelligent analysis.

For each task type, you can view the usage statistics for today, yesterday, last seven days, last 30 days, or a custom time period in the past 60 days.

Enables the viewing and downloading of daily usage details.

**Usage Statistics**
Public cloud ▾

**Transcoding**
Screenshots
Intelligent Auditing
Intelligent Analysis
Intelligent Identification
Audio/Video Enhancement
Live recording

All
General Transcoding
TSC transcoding
Video editing
Transcoding duration
Transcoding tasks

All
Real-time transcoding
Off-peak transcoding

All
Tencent Cloud COS
AWS

Today
Yesterday
Last 7 days
Last 30 days

2024-05-15 ~ 2024-06-13
📅

**Transcoding usage** (minutes) All types ▾

No data

**Transcoding Details**

Date	Codec	Transcoding Duration (min)
No data yet		

Total items: 0
50 ▾ / page
⏪ ⏩ 1 / 1 page

## SDK Usage Details

This page provides the usage data for the Media Processing Service Codec SDK.

It allows viewing of transcoding usage data by duration or by cores used.

You can view the usage statistics for today, yesterday, last seven days, last 30 days, or a custom time period in the past 60 days.

Enables the viewing and downloading of daily usage details.

Usage Statistics

SDK

Transcoding

Duration

Cores used

Transcoding duration

Transcoding tasks

Today

Yesterday

Last 7 days

Last 30 days

2024-06-07 ~ 2024-06-13



Transcoding duration (minutes)

All types

No data

Usage details

Date	Codec	Transcoding Duration (min)
No data yet		

Total items: 0

50 / page

1 / 1 page

# Orchestrations

## VOD Orchestration

Last updated : 2025-06-24 15:08:48

### Operation Scenarios

After you correctly configure the **VOD Orchestration**, the orchestration execution will be automatically triggered for videos you upload to the designated bucket directory, and the output files will be written into the designated bucket directory. You can configure the task, including audio/video transcoding, audio/video enhancement, watermarking, screenshot, animated graphic conversion, moderation, content discovery, and content analysis.

### Creating VOD Orchestration

#### Go to the Creation Page

1. Log in to the [MPS Console](#), and click [Orchestrations > VOD Orchestration > Create VOD Orchestration](#).
2. On the page that appears, create the orchestration based on the business scenario requirements and configure relevant information.

#### Configure Orchestration

Configuration Item	Required	Configuration Description
Trigger type	-	By default, "Tencent Cloud COS" is selected, indicating that the bucket that triggers the orchestration belongs to Tencent COS. When "AWS" is selected, the trigger bucket belongs to AWS S3. This option can be selected if the bucket is configured on AWS services. Refer to <a href="#">Using Amazon S3 Buckets with MPS</a> for detailed information.
Orchestration name	Yes	You can enter a combination of letters, digits, underscores, and hyphens (_). The length cannot exceed 128 characters. Example: "MPS".
Trigger bucket	Yes	You can select a bucket created under this <code>APPID</code> as the trigger bucket. Once the orchestration is enabled, video file upload to this bucket will

		automatically trigger the orchestration execution.
Trigger directory	No	The directory should end with a forward slash (/). If left unspecified, all directories of the trigger bucket can trigger the orchestration execution.
Output bucket	Yes	By default, the output bucket is the same as the trigger bucket. You can also select another bucket in the same region corresponding to the specified <code>APPID</code> as the output bucket. Newly generated video files will be stored in the selected bucket once the service orchestration is completed.
Output directory	No	The directory should end with a forward slash (/). If left unspecified, the trigger directory will be taken as the output directory.
Enable event notifications	-	Refer to the <a href="#">Configure Event Notification</a> section below for details. Once enabled, the transcoding process and result data will be sent through the selected notification method.
Actions	-	Refer to the <a href="#">Configure Actions</a> section below for details. You can quickly build a process by defining process nodes and templates of the service orchestration.
Associate Resource	No	This configuration option will only appear if cost allocation has been enabled in the <b>General Management &gt; General Settings</b> . After resources are associated, cost allocation can be performed for the bill related to this orchestration based on the resource-bound tags. If you need to modify resources, go to <a href="#">Cost Allocation Management</a> .

## Configure Event Notification

This feature can provide real-time updates on the progress and status during task execution. You can enable and configure this feature to receive notifications. Currently, Tencent Cloud provides three event notification mechanisms: TDMQ-CMQ callbacks, HTTP callbacks, and SCF callbacks. Detailed information is as follows:

Callback Type	Configuration Description
TDMQ-CMQ callbacks	To enable TDMQ-CMQ callback, go to the <a href="#">TDMQ console</a> to activate the CMQ service and create a model. Once enabled, the specified CMQ service will receive event notifications from MPS. You need to fill in the following information: TDMQ-CMQ model: Queue model is selected by default. TDMQ-CMQ region: You can select Guangzhou, Shanghai, Beijing, Shanghai Finance, Shenzhen Finance, Hong Kong (China), Chengdu, North America, or West US. Queue name: Custom.
HTTP callbacks	When calling the event notification configuration API <a href="#">TaskNotifyConfig</a> , specify the NotifyType parameter to URL and fill in the HTTP callback address in the NotifyUrl parameter.

## SCF callbacks

1. SCF can rapidly process and operate on callback events triggered by MPS. The overall data processing workflow is shown in the following figure:
2. Events are sent to SCF through the MPS trigger. SCF adopts a serverless architecture and can process and respond to callback events.
3. You can click **Go to SCF console** to configure a function. For specific configuration method, please refer to [MPS Task Callback Notification](#). Note:  
The SCF callback configuration applies to all orchestrations but is not saved specifically for the current orchestration.  
Corresponding computing fees will incur after the data is sent to SCF. For more information, refer to [Billing Overview](#).

## Configure Actions

You can define the entire service process, add various service nodes (such as **audio/video transcoding**, **audio/video enhancement**, **intelligent analysis and screenshot** ), and apply different templates to each node. The detailed configuration is described as follows:

1. Click the **+** button to select the required action from the drop-down list and add it.
2. After the action is added, the action node is displayed. You can then configure detailed information on the node.
3. Click

on the node to enter a pop-up window for edition. You can select the required action and configure the output for the node. If you do not configure the output, the output information specified in the basic information of orchestration will apply.

### Note

The configuration pages vary for different actions. The following figure shows the page of the **audio/video transcoding** action.

## Enabling an Orchestration to Activate Automatic Task Triggering

Once an orchestration is created, it is disabled by default.

After the orchestration is enabled, automatic task triggering is activated. When files are uploaded to the trigger bucket configured for the orchestration, the system automatically initiates processing tasks, without the need to manually create tasks in the console.

If the orchestration is disabled, MPS tasks will not be executed for video files uploaded to the trigger bucket.

### Note:

Once the orchestration is enabled, it only takes effect in video files newly uploaded to the trigger bucket. Files previously stored in the trigger bucket will not be automatically processed.

You can find the **trigger bucket** & **output bucket** configured for the orchestration in the menu **Orchestration > COS Bucket** \page, to conveniently carry out operations such as file upload, preview, download, etc.

## Editng and Deletng an **Orchestration**

### **Editing a VOD Orchestration**

Click **Edit** in the operation column of the target orchestration to enter the **Orchestration Editing** page. Then, you can modify the orchestration name, trigger bucket, trigger directory, output bucket, output directory, event notification, and configuration items.

### **Deleting a VOD Orchestration**

Click **Delete** in the operation column of the target orchestration to delete it.

After the orchestration is deleted, MPS tasks will not be executed for video files uploaded to the trigger bucket.

#### **Note:**

When the orchestration is enabled, it cannot be edited or deleted.

# Live Orchestration

Last updated : 2025-05-13 14:42:23

## Operation Scenarios

If you want to process live streams using MPS, you need to create a **live orchestration**, configure a task such as [live stream recording](#), and specify the output bucket and directory.

## Creating Scheme

### Go to Creation Page

1. Log in to the [MPS console](#), and click [Orchestrations > Live Orchestration > Create Live Orchestration](#).
2. On the **Create Live Orchestration** page, you can create a orchestration process and configuration information that meet your specific business scenario needs.

### Configure Basic Information

Configuration Item	Required	Configuration Description
Scheme name	Yes	You can enter a combination of letters, digits, underscores (_), and hyphens (-). The length cannot exceed 128 characters. Example: "MPS".
Output bucket	Yes	By default, the output bucket is the same as the trigger bucket. You can also select another bucket in the same region of the trigger bucket corresponding to the specified <code>APPID</code> as the output bucket. Newly generated video files will be stored in the bucket you select once the scheme execution is completed.
Output directory	No	The directory should start and end with a forward slash (/).
Enable event notifications	-	For details, refer to <a href="#">Event Notification Configuration</a> . Once enabled, the transcoding process and result data will be reflected through the selected notification method.
Actions	-	Please refer to the <a href="#">Configure Actions</a> section below.

You can quickly build a business process by defining process nodes and templates of the orchestration.

## Configure Actions

In this area, you can define the process for the entire service, add different service nodes (such as [live recording](#)), and configure different templates for each node. The detailed configuration instructions are as follows:

1. Click the **+** button to select the required action from the drop-down list and add it.
2. Click the edition button on the right of the added action for detailed configuration. Fill in the information on the detailed configuration page and click Save.
3. In addition, for the node of the live recording type, in **More Settings**, you can also **customize the recording output path**. Currently, it supports saving recording files to Tencent Cloud Object Storage (COS) and AWS S3. Here, the customized recording output path has a higher priority than the output path of the live task. If the **Customize Recording Output Path** is not enabled, the output path of the recording files will remain consistent with the output path of the live task by default.

### Tencent Cloud COS

Configuration Item	Overview
Output Bucket	Select a region. Select Bucket.
Output path	<p>If you need to customize the output path or file name, please fill in the specific output path and output filename. The format should be: <code>/custom path/filename_{variable name}.{format}</code> .</p> <p>The default output path is: <code>/{taskId}/{rand}/{streamId}_record_{definition}.{format}</code> . The <code>{rand}</code> here is a random number variable. If you remove <code>{rand}</code>, under the same conditions of other variable parameters, it may lead to mutual overlap of multiple recording result files. Modify or delete <code>{rand}</code> with caution.</p> <p>If you don't need to define the file output path and file name, you can also set the value in this input box to empty. The recording files will be stored in the root directory of the output Bucket.</p>

### AWS S3

Configuration Item	Overview
Subaccount Info	AWS subaccount info: secretID, secretKey.
Output S3 Bucket	S3 region: Please fill in the S3 region. Refer to the specification on the AWS website for

	<p>the fill-in format. For example: ap-southeast-1.</p> <p>S3 name: Please fill in the name of the S3 you maintain in AWS.</p>
Output file path	<p>If you select the output path type as AWS S3, this output file path is required information.</p> <p>Please fill in the specific output path and output filename. The format should be:</p> <pre>/custom path/filename_{variable name}.{format} .</pre> <p>The default output path is:</p> <pre>{taskId}/{rand}/{streamId}_record_{definition}.{format} .</pre> <p>The {rand} here is a random number variable. If you remove {rand}, under the same conditions of other variable parameters, it may lead to mutual overlap of multiple recording result files. Modify or delete {rand} with caution.</p>

4. After the aforementioned information is configured, click **Create** to create the **orchestration**.

# COS Bucket

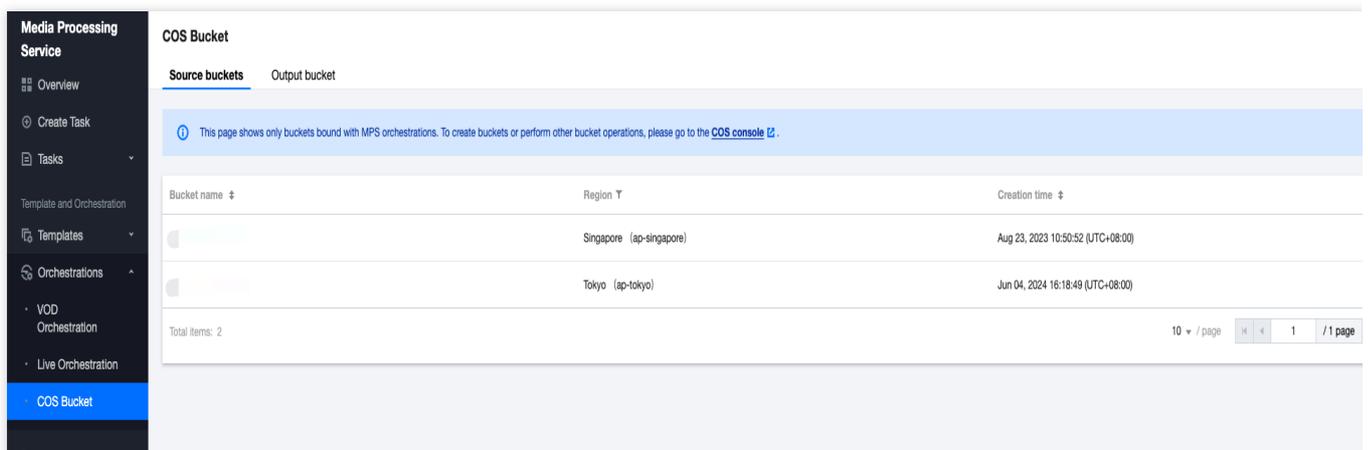
Last updated : 2024-06-12 15:06:14

## Overview

The Cloud Object Storage (COS) Bucket provides a list of input and output buckets bound with Media Processing Service (MPS) schemes, making it easier to query the usage of related buckets.

## Details

1. Log in to the [MPS console](#), and click [Orchestrations > COS Bucket](#) to enter the COS Bucket page. On this page, you can click **Source buckets** and **Output bucket** to view the input and output buckets bound with MPS.



2. Click **View files** in the operation column to view the files in a bucket.

### Bucket files ✕

Bucket List / **chenhui01-1306038592** 



Object Name	Size	Last Updated
 <a href="#">2021-08-05/</a>	-	-
 <a href="#">2021-08-25/</a>	-	-
 <a href="#">2021-08-27/</a>	-	-
 <a href="#">2021-09-01/</a>	-	-
 <a href="#">2021-09-29/</a>	-	-
 <a href="#">2021-10-08/</a>	-	-
 <a href="#">2021-10-09/</a>	-	-
 <a href="#">2021-10-11/</a>	-	-
 <a href="#">2021-10-12/</a>	-	-
 <a href="#">2021-11-16/</a>	-	-
 <a href="#">2021-11-17/</a>	-	-
 <a href="#">2021-12-30/</a>	-	-

Confirm

**Note:** This page shows only buckets bound with MPS schemes. To create buckets or perform other bucket operations, please go to the [COS console](#).

# Workflows

Last updated : 2023-03-03 11:23:18

## Note:

The **Workflows** section of the MPS console has been replaced with **Schemes**, which offers easier and more flexible settings. To configure a scheme, go to **Schemes**.

## Overview

After you set up a workflow, media files uploaded to the specified bucket and directory will be processed automatically, and the results will be uploaded to the specified bucket and directory. Workflows can include tasks such as transcoding, screenshot taking, animated screenshot generating, moderation, content recognition, content analysis, and watermarking.

## Creating a Workflow

1. Log in to the [MPS console](#) and select **Workflows** on the left sidebar.
2. Click **Create Workflow** to enter the workflow creation page and set the workflow name, trigger bucket, trigger directory, output bucket, output directory, event notifications and tasks. For detailed instructions, see [workflow configuration](#).

Workflow Name   
 Max 128 characters; supports Chinese characters, letters, digits, underscores, and hyphens.

Trigger bucket    
 Singapore, Mumbai, and Silicon Valley are currently supported. More regions will be available soon.

Trigger directory   
 It starts and ends with a slash. If left empty, it will take effect on all paths in the bucket.

Output bucket

Output Directory   
 It is ended with a slash. If left empty, the transcoding output directory will be the same as the trigger directory.

Enable event notifications

Callback method  TDMQ-CMQ callback  HTTP callback  SCF callback

TDMQ-CMQ model  Queue model  Topic model

TDMQ-CMQ region

Queue name

Configuration items  Transcoding task  Adaptive bitrate streaming task  Screenshot task  Animated image generating task  Moderation task  Content recognition task  Content analysis task  
 You must select at least one configuration item for workflow

The table below lists the information needed to configure a workflow.

Item	Required	Description
Workflow name	Yes	Max 128 characters; supports Chinese characters, letters, digits, underscores, and hyphens. Example: "MPS"
Trigger bucket	Yes	Select a bucket created under the current `APPID`. After the workflow is enabled, videos uploaded to this bucket will be processed automatically.
Trigger directory	No	A string that ends with (/). If it is left empty, the workflow will be applied to all directories under the selected trigger bucket.
Output bucket	Yes	By default, the output bucket is the same as the trigger bucket. You can also select a bucket in the same region under the same `APPID`. After a workflow is executed, the processed videos will be stored in this bucket.
Output directory	No	A string that ends with (/). If it is left empty, the output directory will be the same as the trigger directory.
Event notifications	No	Disabled by default. For detailed instructions on how to configure event notifications, see <a href="#">callback configuration</a> below. To enable TDMQ-CMQ event notifications, you need to activate <a href="#">Tencent Distributed Message Queue</a> and create a model. After TDMQ-CMQ event notifications are enabled, the specified message queue will receive notifications about video processing events.

Configuration items	Yes	From transcoding, screenshot taking, animated image generation, moderation, content recognition, and content analysis, select at least one task for configuration. For details, see <a href="#">task configuration</a> below.
---------------------	-----	---

Callback Method	Configuration
TDMQ-CMQ callbacks	TDMQ-CMQ model: Select “Queue model”. or “Topic model”. TDMQ-CMQ region: Select Guangzhou, Shanghai, Beijing, Shanghai Finance, Shenzhen Finance, Hong Kong (China), Chengdu, North America, or west US. Queue name/Topic name: Enter a custom name.
HTTP callbacks	When calling the notification configuration API <a href="#">TaskNotifyConfig</a> , set `NotifyType` to `URL` and `NotifyUrl` to the HTTP callback address.
SCF callbacks	You can click <a href="#">Go to SCF console</a> to configure a function in the SCF console. For detailed directions, see <a href="#">MPS Task Callback Notification</a> . SCF callback configuration applies to all workflows and is not saved specifically for the current workflow.

## Event Notifications

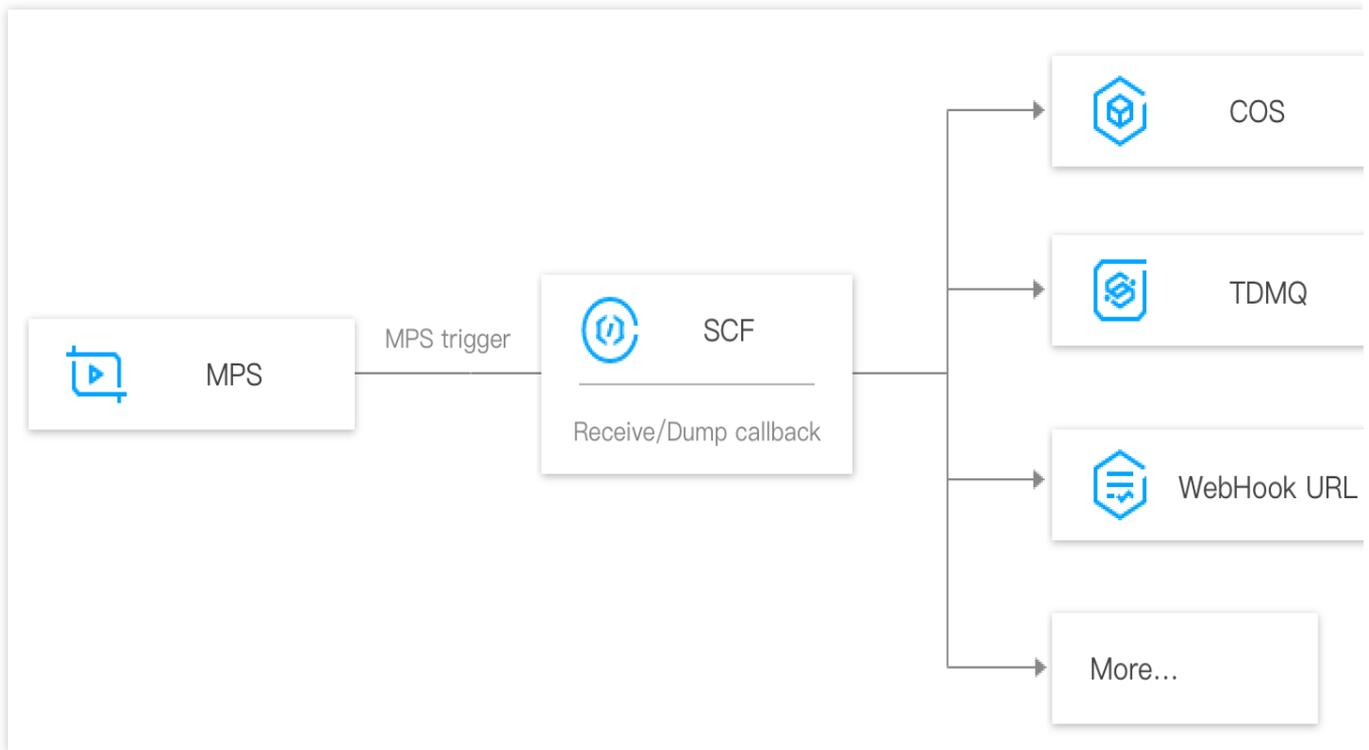
### Receiving event notifications via CMQ

Event notifications are disabled by default. To receive notifications via CMQ, click the toggle next to **Enable Event Notifications**, select queue or topic model for **CMQ Model**, and set the model name and region. MPS event notifications will be sent to the specified queue or topic.

You can receive event notifications via CMQ only after you activate the CMQ service and create a queue or topic model. For more information, please see [CMQ > Getting Started](#).

### Receiving event notifications via SCF

SCF allows quick handling of the event notifications generated by MPS. The figure below shows the data flow.



Events are pushed to SCF by the MPS trigger and are handled by serverless functions.

### Use cases

CLS can deliver the data in log topics to SCF via an MPS log trigger to enable operations such as notification sending, status monitoring, and alarm handling.

Function Processing Scenario	Description
Video task backup to COS	Backing up the called back tasks of MPS to COS via SCF in a timely manner
Video task callback notifications	Receiving MPS data messages in real time and sending the messages to users via WeCom or email.

### Note:

Sending data to SCF will incur fees. For details, see [Billing Overview](#).

## Managing Workflows

1. Log in to the [MPS console](#) and select **Workflows** on the left sidebar.
2. The workflow list displays information including workflow name, trigger bucket, region, trigger directory, creation time, and status. You can sort workflows by creation time, search for a workflow by name, and view, edit, or delete a workflow.

**Enable a workflow**

Workflows are disabled by default. To enable a workflow, click the toggle in the **Enable** column.

After a workflow is enabled, it will be automatically executed for videos uploaded to the trigger bucket.

**Disable a workflow**

To disable a workflow, click the toggle in the **Enable** column.

After a workflow is disabled, it will no longer be automatically executed on videos uploaded to the trigger bucket.

**Edit a workflow**

Click **Edit** in the **Operation** column of the target workflow to modify its name, trigger bucket, trigger directory, output bucket, output directory, event notification settings, and tasks.

You cannot edit or delete an enabled workflow.

**Delete a workflow**

Click **Delete** in the **Operation** column of the target workflow to delete it.

After a workflow is deleted, it will no longer be automatically executed on videos uploaded to the trigger bucket.

You cannot edit or delete an enabled workflow.

# Templates

## Template Overview

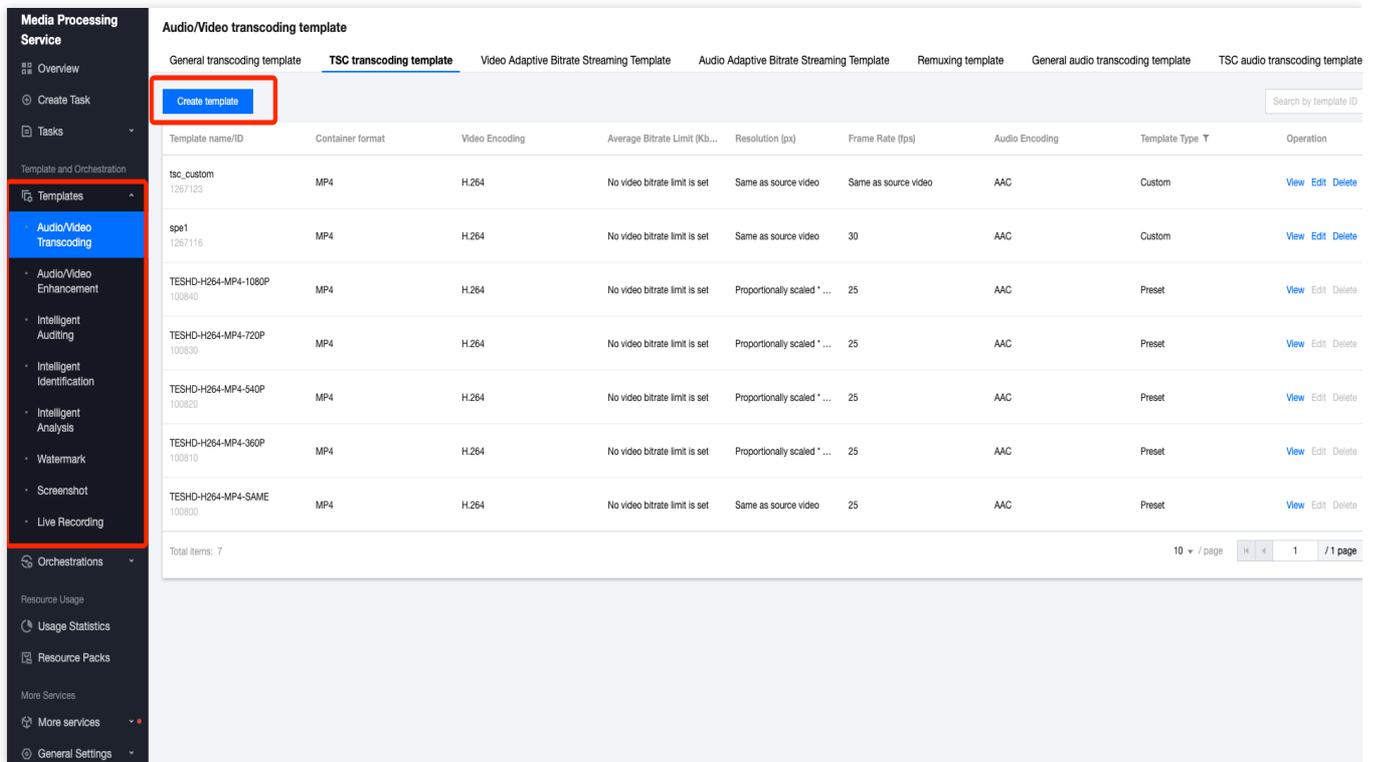
Last updated : 2024-07-22 14:19:25

### Overview

Media Processing Service (MPS) supports transcoding, enhancement, and intelligent analysis, among other rich features. Each feature has corresponding detailed parameter settings. You can preset different processing parameters through configuring templates, facilitating subsequent reuse.

### Directions

Log in to the [MPS console](#) and click **Templates** on the left sidebar. Select the type of template you want to configure and click **Create template**.



## Template Types

The table below lists the types of media processing templates you can create and add to an orchestration.

**Note:**

After [an orchestration is enabled](#), if the template used in the orchestration is edited, the orchestration will proceed with the edited template parameters.

After [an orchestration is enabled](#), if the template used in the orchestration is deleted, the subtasks related to that template will fail.

Template Type	Subtype	Description
Audio/Video transcoding	TSC transcoding template	Compared to general transcoding, TSC transcoding template significantly reduces the file size of videos while maintaining their clarity.
	General transcoding template	Basic video transcoding capabilities.
	Video adaptive bitrate streaming template	The input source video files can be transcoded into multiple streams suitable for playback in various scenarios, allowing users to select the appropriate bitrate for video playback based on their network conditions, thereby enhancing the viewing experience.
	General audio transcoding template	Supports basic transcoding processing for pure audio files.
	TSC audio transcoding template	Compared to general audio transcoding, it achieves transcoding results with lower bit rates and superior sound quality.
	Audio adaptive bitrate streaming template	Convert audio into adaptive bitrate streaming formats, allowing users to select the appropriate bitrate for audio playback based on their network conditions, thereby enhancing the listening experience.
	Remuxing template	Transform the encapsulation format of the source video without re-encoding it. Currently, the conversion of source videos into MP4 and HLS formats is supported.
Audio/Video enhancement	Audio/Video enhancement	Our service supports the enhancement and repair of various quality issues in audio and video, comprehensively improving the visual experience. It is widely used in international major events such as the Olympic Games and the FIFA World Cup, as well as

		diverse scenarios such as the restoration of classic films and esports live streaming.
Intelligent auditing	Intelligent auditing	Audit images, voice, and text in videos for pornography, illegality, and regulation violations.
Intelligent identification	Intelligent identification	Identify faces, objects, text, and voice. Automatic Speech Recognition (ASR) also supports intelligent translation and converts it to subtitles.
Intelligent analysis	Intelligent analysis	Support tagging, classification, cover generation, frame-specific tagging, clipping, montage, intro and outro, game marking, and other intelligent analysis capabilities.
Screenshot	Time point screenshot	Take screenshots at specific time points.
	Sampled screenshot	Take screenshots at a specified interval (seconds or percentage).
	Image sprite screenshot	Take screenshots at specified time points and merge them into a sprite.
	Animated screenshot	Cut out a video clip and make it into an animated screenshot.
Watermark	Watermark	Add a text or image watermark to a video.
Live recording	Live recording	Record live streaming content.

# Audio/Video Transcoding Template

Last updated : 2025-05-13 14:42:24

## Overview

You can preset different processing parameters for different application scenarios by configuring audio/video transcoding templates, so that they can be reused later.

If you need to process video files, you can configure [video transcoding templates](#), including general video transcoding templates, Top Speed Codec (TSC) transcoding templates, video adaptive bitrate streaming templates, and remuxing templates.

If you need to process audio-only files, you can configure [audio transcoding templates](#), including general audio transcoding templates, TSC audio transcoding templates, and audio adaptive bitrate streaming templates.

For a brief introduction to each feature, refer to the table below:

Applicable Input Source	Feature	Description
Video	General transcoding	It can reduce the video bitrate and change the encoding standard, resolution, frame rate, and other parameters of the original bitstream, thus adapting to playback on different terminals and in different network environments.
	TSC transcoding	TSC transcoding is an "upgrade" of General Transcoding. It can adaptively optimize different types of videos, providing users with a clearer viewing experience at lower bandwidth. While ensuring or even improving image quality, it can save bandwidth costs by 50%+.
	Video adaptive bitrate streaming	It can convert the input original video file into multiple bitstreams suitable for playback in different scenarios, so that users can choose a video with an appropriate bitrate for playback based on their network, thereby enhancing user experiences.
	Remuxing	It can change the container format of the original video file.
Audio	General audio transcoding	It can reduce the audio bitrate and change the encoding standard, sample rate, channel, and other parameters, thus adapting to playback on different terminals and in different network environments.
	TSC audio transcoding	TSC audio transcoding is an "upgrade" of general audio transcoding. It can adaptively optimize different types of audio to provide users with a better audio experience with lower bandwidth.
	Audio adaptive	It can convert the input original audio file into multiple bitstreams

bitrate  
streaming

suitable for playback in different scenarios, thereby adapting to different network conditions and enhancing user experiences.

## Video Transcoding Templates

### 1. General Transcoding

MPS provides preset General Transcoding Templates, which can be used directly. You can also click [Create template](#) to customize your own General Transcoding Templates.

**Table of Detailed Configuration Item Description**

Item	Description	
Template name	Max 64 characters; supports Chinese characters, letters, digits, underscores (_), hyphens (-), and periods.	
Container format	MP4, FLV, HLS, MXF, MOV, TS, WEBM, and MKV.	
Configuration Item	Video parameters (required) and audio parameters (optional).	
(configurable when the container format is HLS)	Multipart Format	TS, MP4.
	Data Sharding	Segment File (segment), Single File (single-file). Note: Single File requires the server to support byte range requests. Not all HLS devices and players support a single file/byte range.
	Average Segmentation Duration	The following two methods are supported: Automatic Custom: Fill in the average segment duration (in s).
	Segment Duration at Startup	This configuration item is disabled by default. Once it is enabled, you can set a special average duration for the first few segments of the video. For example, set the first segment to have a shorter duration than other segments to reduce video buffering time and improve user experiences. Enter an integer value greater than or equal to 1.
	Number of Effectuated Segments	It is used to specify the number of the first few video segments to take effect when Segment Duration at Startup is enabled. Enter an integer value greater than or equal to 1.

Video Parameters	Encoding standard		H.264, H.264 intra, H.265, AV1, H.266, MV-HEVC, MPEG2, VP8, and VP9.
	Resolution & Bitrate	Bitrate Control Mode	<p>The following four bitrate control modes are supported:</p> <ol style="list-style-type: none"> <li>1. VBR (default): variable bitrate. The bitrate of the output is adjusted dynamically based on the complexity of video images, resulting in higher image quality. It is suitable for storage scenarios as well as applications requiring high image quality.</li> <li>2. ABR: average bitrate. The average bitrate of the output video is kept stable to the greatest extent, but short-term bitrate fluctuations are allowed. It is suitable for scenarios where minimizing the overall bitrate is required while a certain image quality is maintained.</li> <li>3. CBR: constant bitrate. The bitrate of the output is kept constant during the video encoding process without considering changes in image complexity. It is suitable for scenarios with strict network bandwidth requirements.</li> <li>4. CRF: constant quality factor. Video quality is controlled by setting a quality factor to achieve constant quality encoding of videos, with the bitrate adjusted automatically based on the complexity of the content. It is suitable for scenarios requiring stable image quality.</li> </ol>
		CRF Value	<p>Video constant bitrate control factor, supporting the following two modes:</p> <p>Automatic: The CRF value is automatically selected.</p> <p>Custom: The range of the CRF value is 0 to 51, where 0 means lossless compression and 51 means maximum compression. The typically recommended value range is 18 to 28, where 18 represents a low compression ratio with high quality and 28 represents a high compression ratio with low quality.</p> <p><b>Note:</b></p> <p>When the bitrate control mode is set to VBR and the CRF value is configured, MPS will process the video in VBR mode according to the CRF value and the average bitrate upper limit, to balance the video quality, bitrate, transcoding efficiency, and file size.</p> <p>When the bitrate control mode is set to CRF, the average bitrate upper limit setting will be invalid, and encoding will be performed according to the CRF value.</p> <p>When the bitrate control mode is set to ABR or CBR, the CRF does not need to be set.</p>
	Proportional	Disabled (default).	

		Compression Bitrate	Enabled: The bitrate of the output video will be adjusted based on the input compression ratio.
		Compression Ratio	It is used when Proportional Compression Bitrate is enabled. The compression ratio is an integer within the range of [0, 100].
		Recommended Settings	Select the desired output video quality, such as Standard Definition (SD), and the preset video bitrate, resolution, and audio bitrate will be automatically populated for you. Note: different encoding standards have varying recommended parameters. For more details, refer to the <a href="#">Appendix</a> .
		Average Bitrate	The following two modes are supported: No video bitrate limit is set. Custom: It is customized within the range of [128, 35000] (in Kbps).
		Resolution	The following three modes are supported: Keep the original: The resolution is consistent with that of the source video. Scale: The image is scaled proportionally according to the long or short side (width or height), with a size range of [128, 4096] (in px). Custom: Both the long and short sides (width and height) can be scaled in custom proportion, with a size range of [128, 4096] (in px).
		Display Aspect Ratio (SAR)	It is used when the resolution is set to Custom and the aspect ratio of the video differs from that of the source video. The sample aspect ratio (SAR) refers to the pixel aspect ratio of the video and is used to specify the shape of pixels. The following three modes are supported: Keep the origin (default) 1 : 1 2 : 1
		Padding Rules	It is used when the resolution is set to Custom and the aspect ratio of the video differs from that of the source video. The following five modes are supported: Scale to fill: This will scale the video image to fill the entire display area, which may cause distortion. Black bars: (default) Black bars are added around the video to maintain the original aspect ratio, which may waste some display space.

			<p>White bars: It is similar to the mode of black bars, but white bars are added on the top and bottom/left and right sides of the video.</p> <p>Gaussian Blur: Applies a Gaussian Blur effect to the stretched or filled areas to reduce visual discomfort.</p> <p>Intelligent cropping: The video image to be retained is intelligently selected at the time of video cropping.</p>
	Frame Rate		<p>The following two video frame rate setting modes are supported:</p> <p>Keep the original: The frame rate is consistent with that of the source video.</p> <p>Custom: The frame rate is customized within the range of [1, 120] (in FPS). If the set value exceeds the source frame rate, duplicate frames will be inserted to make up for it.</p>
	GOP	Same Origin of GOP Structure	<p>Disabled (default).</p> <p>Enabled: The GOP is consistent with that of the source file. Once it is enabled, no other GOP parameters need to be set.</p>
		GOP Length	<p>The following two modes are supported:</p> <p>Automatic</p> <p>Custom: Enter an integer number of frames or duration (in seconds).</p>
		Adaptive I-Frame Decision	<p>Disabled (default).</p> <p>Enabled: MPS will automatically identify transition points between different scenarios in the video and adaptively insert keyframes (I-frames) at these points, thereby improving the video's random accessibility and encoding efficiency.</p>
		Max. Number of Consecutive B Frames	<p>Supported options: Automatic, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16.</p> <p>When the encoding standard is set to H.264 or H.265, it is recommended to select [Automatic] so that MPS can select the optimal number of B frames.</p>
		GOP Duration at Startup	<p>Disabled (default).</p> <p>Enabled: It is used to set the GOP duration of the video at startup (in seconds).</p>
		GOP Quantity at Startup	<p>It is used when GOP Duration at Startup is enabled.</p> <p>It is used to set the first x GOPs of the video to take effect at startup, where x is input by the user.</p>

	More	Encoder Level	<p>The default value is Automatic.</p> <p>If H.264 is selected as the encoding standard, the following options are supported: Automatic, 1, 1.1, 1.2, 1.3, 2, 2.1, 2.2, 3, 3.1, 3.2, 4, 4.1, 4.2, 5, and 5.1.</p> <p>If H.265 is selected as the encoding standard, the following options are supported: Automatic, 1, 2, 2.1, 3, 3.1, 4, 4.1, 5, 5.1, 5.2, 6, 6.1, 6.2, and 8.5.</p> <p>If H.266, MV-HEVC, or AV1 is selected as the encoding standard, this option is not available.</p>
		profile	<p>This configuration item is available only when H.264 is selected as the encoding standard. Different profiles are suitable for different scenarios.</p> <p>Auto(default): Automatically select the most suitable profile.</p> <p>Baseline: Supports only I/P frames and non-interlaced scenarios, suitable for video calls and mobile videos.</p> <p>Main: The mainstream profile, providing I-frames, P-frames, and B-frames. It supports both non-interlaced and interlaced modes, mainly used in mainstream audio and video consumer products like video players and streaming media transmission devices.</p> <p>High: The highest encoding level, adding 8x8 prediction to Main Profile and supporting customized quantization, widely used in Blu-ray storage and high-definition television.</p>
		Bit	8 (default) and 10
		Keep Original Timestamp	<p>Disabled (default)</p> <p>Enabled</p>
Audio Parameters	Audio Transcoding		<p>Enabled: Audio transcoding parameters can be set.</p> <p>Disabled: The original audio is used.</p>
	Encoding standard		<p>When the container format is MP4, the corresponding encoding standards are AAC and MP3.</p> <p>When the container format is FLV, the corresponding encoding standard is AAC.</p> <p>When the container format is HLS, the corresponding encoding standard is AAC.</p> <p>When the container format is MXF, the corresponding encoding standards are PCM16 and PCM24.</p> <p>When the container format is MOV, the corresponding encoding standards are AAC and MP3.</p> <p>When the container format is TS, the corresponding encoding standards are AAC and MP3.</p>

		When the container format is WEBM, the corresponding encoding standard is Opus. When the container format is MKV, the corresponding encoding standards are AAC and Opus.
	Sample rate	7350, 8000, 11025, 12000, 16000, 22050, 24000, 32000, 44100, 48000, 64000, 88200, 96000, etc., in Hz. For more details, see <a href="#">Appendix: Supported Audio Sample Rates</a> .
	Bitrate	The following two modes are supported: Keep the original Custom: It is customized within the range of [26, 256] (in Kbps).
	Channel	Mono-channel, Dual-channel, Multichannel.

## 2. TSC Transcoding

MPS provides preset TSC templates, which can be used directly. You can also click [Create template](#) to customize your own TSC templates.

### Table of Detailed Configuration Item Description

Item	Description	
Template name	Max 64 characters; supports Chinese characters, letters, digits, underscores (_), hyphens (-), and periods.	
Container format	MP4, FLV, HLS, MXF, MOV, TS, WEBM, and MKV.	
Configuration Item	Video parameters (required) and audio parameters (optional).	
Segmentation Rules	Multipart Format	Segmentation rules can be configured when the container format is HLS. For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.
	Data Sharding	
	Average Segmentation Duration	
	Segment Duration at Startup	
	Number of Effected Segments	
Video Parameters	Encoding standard	H.264, H.264 intra, H.265, AV1, H.266, MV-HEVC, MPEG2, VP8, and VP9.

<p>Intelligent Scenario Configuration</p>	<p>Disabled (default)                  Enabled: Video scenarios and transcoding strategies applicable for the template parameter can be selected. MPS will intelligently adjust underlying processing parameters based on the selected scenarios and strategies to achieve better transcoding effects for different scenario characteristics.</p>
<p>Applicable video scenarios</p>	<p>MPS provides several preset video scenarios, with different processing modes configured to adapt to different scenario characteristics:</p> <p>General Transcoding Scenarios: General transcoding compression scenarios.</p> <p>PGC High-Definition Movie and TV Drama: The focus is on the viewing experience of movies and TV dramas at the time of compression. ROI encoding is applied based on the characteristics of movies and TV dramas, while high-quality video and audio contents are retained.</p> <p>High-Definition Material: This scenario involves material resource categories with extremely high requirements for picture quality and includes many transparent picture elements. The compression achieves almost visually lossless quality.</p> <p>User-Generated Content (UGC): It is suitable for a wide range of UGC/short video scenarios. It optimizes the encoding bitrate and image quality based on the characteristics of short videos and improves business QoS/QoE metrics.</p> <p>Showroom/e-commerce category: Emphasizes detail clarity and ROI area enhancement during compression, with particular attention to maintaining image quality in facial areas.</p> <p>Education Category: The emphasis is on the clarity and readability of text and images at the time of compression to help students better comprehend the content, ensuring the clear conveyance of instructional material.</p>
<p>Transcoding strategy</p>	<p>TSC transcoding supports the <b>Standard Compression</b> and <b>Extreme Compression</b> strategies. Different strategies have different underlying transcoding models, which will affect the bitrate, image quality, and other results.</p> <p>Standard Compression: Standard TSC transcoding, which provides three options:</p> <ul style="list-style-type: none"> <li>Low Compression - Image quality preferred</li> <li>Medium Compression - Comprehensive optimization</li> <li>High Compression - Bitrate preferred</li> </ul>

		<p>From top to bottom, the higher the compression level, the smaller the output video file size, and the greater the image quality loss. Using any option of this strategy <b>only incurs TSC transcoding fees</b>.</p> <p>Extreme Compression: An "upgraded version" of standard compression, <b>with the highest compression level</b>, which maximizes the compression bitrate while ensuring a certain level of image quality, significantly saving bandwidth and storage costs. Using this strategy <b>incurs both TSC transcoding and audio/video enhancement - artifacts removal fees</b>. For details, see <a href="#">Billing Description</a>.</p> <p><b>Note:</b></p> <p>If the output video is intended for viewing on a TV, it is not recommended to use the extreme compression strategy.</p>
Resolution & Bitrate	Bitrate Control Mode	<p><i>For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.</i></p>
	CRF Value	
	Proportional Compression Bitrate	
	Compression Ratio	
	Recommended Settings	
	Average Bitrate	
	Resolution	
	Display Aspect Ratio (SAR)	
	Padding Rules	
Frame Rate		<p><i>For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.</i></p>
GOP	Same Origin of GOP Structure	<p><i>For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.</i></p>
	GOP Length	

		Adaptive I-Frame Decision	
		Max. Number of Consecutive B Frames	
		GOP Duration at Startup	
		GOP Quantity at Startup	
	More	Encoder Level	<i>For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.</i>
		profile	
		Bit	
		Keep Original Timestamp	
Audio Parameters	Audio Transcoding		<i>For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.</i>
	Encoding standard		
	Sample rate		
	Bitrate		
	Channel		

### 3. Video Adaptive Bitrate Streaming Template

MPS provides preset Video Adaptive Bitrate Streaming Templates, which can be used directly. You can also click [Create template](#) to customize your own Video Adaptive Bitrate Streaming Templates.

#### Table of Detailed Configuration Item Description

Item	Description
Template Name	Max 64 characters; supports Chinese characters, letters, digits, underscores ( _ ), hyphens ( - ), and periods.

Template Description		Max 256 characters; supports Chinese characters, letters, digits, underscores ( _ ), hyphens (-), and periods.	
Packaging Format		HLS, MPEG-DASH.	
Multipart Format (HLS Packaging Options)		MP4, MP4+Packed Audio, TS, TS+Packed Audio.	
Data sharding (HLS Packaging Options)		Segment File (segment), Single File (single-file).	
Resolution		Disallow low resolution video to high resolution conversion Allow low resolution video to high resolution conversion: Transcoding a low-resolution original video to high resolution does not directly enhance the image quality. If you desire to improve the quality effect of the video, you can use the <a href="#">Audio and Video Enhancement</a> feature.	
Substream Information	Transcoding Type		You can select a transcoding type for each substream, supporting <b>General transcoding</b> or <b>TSC transcoding</b> .
	Video Parameters	Encoding standard	H.264, H.265, AV1 ,MV-HEVC.
		Intelligent Scenario Configuration	If the substream transcoding type is TSC transcoding, this configuration is supported. For configuration instructions, see the section <a href="#">TSC Transcoding - Table of Detailed Configuration Item Description</a> above.
		Applicable video scenarios	
		Transcoding policy	
		Bitrate & Resolution	For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.
		Frame Rate	For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above. <b>Note:</b> The frame rate configuration of each substream must be consistent.
		GOP	For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above. <b>Note:</b> The GOP configuration of each substream must be consistent.

		More	For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.
		Segmentation Rules	<p>Segmentation rules can be configured when the container format is HLS.</p> <p>For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.</p> <p><b>Note:</b></p> <p>The segmentation rules for each substream are consistent by default. If needed, you can click "<b>Configure Different Rules</b>" to set distinct average segment durations and initial segment lengths for substreams.</p>
	Audio Parameters	Basic	<p>Audio Transcoding, Encoding standard, Sample rate, Bitrate, Channel.</p> <p><i>For details, see the section <a href="#">General Transcoding - Table of Detailed Configuration Item Description</a> above.</i></p>
		More	<p>Prerequisite: when the container format is HLS, this setting can be configured.</p> <p>More: when the output audio tracks and sound channels do not have a complete one-to-one correspondence with the input ones, this advanced setting can be used to adjust or mix the input audio tracks/sound channels.</p> <p>After expanding, you can configure the <b>selector type, audio track serial number/sound channel serial number, and whether to enable manual mixing.</b></p>
		Selector Type	<p>If the input audio track has only one sound channel, select <b>audio track SN</b>.</p> <p>If the input audio track has multiple channels, select <b>audio track SN + sound channel SN</b>.</p>
		Audio Track SN	<p>Fill in the specific audio track serial numbers to indicate which input audio tracks you need to use.</p> <p>The audio track SN corresponds to the stream index value of an audio track. It can be 0 or a positive integer. Multiple audio track SNs should be separated by commas and filled in according to output sound channel SNs.</p>
		Audio Track SN.Sound Channel SN	<p>Fill in the specific audio track serial numbers and sound channel serial numbers to indicate which input audio tracks and sound channels you need to use.</p>

			<p>The integer parts represent audio track SNs, and the decimal parts represent sound channel SNs. The audio track SN is the stream index value of an audio track, which can be 0 or a positive integer. The decimal parts support a maximum of 2 decimal places, and the number should be in the range of 0 to 63. For example, for an audio track with a stream index value of 1, 1.0 represents the first sound channel of this audio track, and 1.1 represents the second sound channel of this audio track. Multiple values should be separated by commas, and the audio track SNs should follow the order of output sound channel SNs.</p>
		Manual Mixing	<p>If manual mixing is not enabled, when you fill in the audio track SN, the system will sequentially use the filled audio tracks as the respective output sound channels of this output audio track in the order filled.</p> <p>If manual audio mix is not enabled, when you fill in the audio track SN.sound channel SN, the system will sequentially use the filled sound channels as the respective output sound channels of this output audio track in the order filled.</p> <p>Enable the feature of multi-audio track mixing and complete mixing settings based on multiple input audio tracks to meet the configuration requirements of output audio tracks.</p>
		Number of Input Channels	<p>This number depends on the number of audio track SNs (or audio track/sound channel SNs) you have filled in.</p>
		Number of Output Channels	<p>Select the number of output sound channels.</p>
		Mixing Details	<p>Configure the output audio track's sound channels based on the input audio tracks.</p> <p>The matrix's row data represents the input audio tracks, and the matrix's column data represents each sound channel of the output audio tracks.</p> <p>For each sound channel of the output audio tracks, you can configure in the corresponding column, fill in which input audio tracks are mixed to form this sound channel, and fill in the decibel value for the mixing of input audio tracks. The value can be filled with a number between -60 and 6, supporting up to 3 decimal places. Among them, -60 represents mute, 0 represents maintaining the original volume, and the default value is -60.</p>

		For instance, if the L(0) channel in the first column is a mix of the audio track in the first row and the second row with original volume, fill '0' in the first column's first and second row input boxes.
	Add Audio Track	<p>If you want to include multiple audio tracks in the output file and perform individual configuration for each track, you can do this through <b>Add Audio Track</b>.</p> <p>If <b>More</b> settings are not enabled and multiple audio tracks are not <b>added</b>, the number of audio tracks in the output will be consistent with the input.</p>

#### 4. Remuxing Template

The system provides remuxing templates, which can be used directly. Currently, the system provides templates for transcoding to MP4 and HLS formats, with no support for custom remuxing templates.

##### System Preset Remuxing Template List

Template Name	Template ID	Container Format
Transformat-MP4	9	MP4
Transformat-HLS	6	HLS

#### Appendix: Recommended Settings

To accommodate varying requirements for video clarity, it is recommended that you configure the video bitrate, resolution, and audio bitrate according to the following suggested parameters. Please note:

The recommended settings vary across different encoding standards. For instance, the suggested video bitrate under the H.265 encoding standard is generally 60% of that recommended for the H.264 encoding standard.

Compared to standard video transcoding, ultra-high-definition rapid transcoding recommends a lower video bitrate configuration.

Encoding standards	Recommended settings level	Resolution setting	General Transcoding	TSC Transcoding	Audio bitrate setting (Kbps)
			Video bitrate setting (Kbps)		
H.264 H.264intra VP9	SD	(Long side) Proportionally scaled * (Short side) 480	1200	720	64
	HD	(Long side) Proportionally scaled *	2500	1500	96

		(Short side) 720			
	FHD	(Long side) Proportionally scaled * (Short side) 1080	6000	3600	
	2K	(Long side) Proportionally scaled * (Short side) 1440	8000	4800	128
4K	(Long side) Proportionally scaled * (Short side) 2160	20000	12000		
H.265	SD	(Long side) Proportionally scaled * (Short side) 480	720	432	64
	HD	(Long side) Proportionally scaled * (Short side) 720	1500	900	96
	FHD	(Long side) Proportionally scaled * (Short side) 1080	3600	2160	
	2K	(Long side) Proportionally scaled * (Short side) 1440	4800	2880	128
	4K	(Long side) Proportionally scaled * (Short side) 2160	12000	7200	
AV1	SD	(Long side) Proportionally scaled * (Short side) 480	540	324	64
	HD	(Long side) Proportionally scaled * (Short side) 720	1125	675	96
	FHD	(Long side) Proportionally scaled * (Short side) 1080	2700	1620	
	2K	(Long side) Proportionally scaled *	3600	2160	128

		(Short side) 1440			
	4K	(Long side) Proportionally scaled * (Short side) 2160	9000	5400	
H.266	SD	(Long side) Proportionally scaled * (Short side) 480	420	252	64
	HD	(Long side) Proportionally scaled * (Short side) 720	875	525	96
	FHD	(Long side) Proportionally scaled * (Short side) 1080	2100	1260	
	2K	(Long side) Proportionally scaled * (Short side) 1440	2800	1680	128
	4K	(Long side) Proportionally scaled * (Short side) 2160	7000	4200	
	MV-HEVC	FHD	(Long side) Proportionally scaled * (Short side) 1080	9000	5400
2K		(Long side) Proportionally scaled * (Short side) 1440	12000	7200	128
4K		(Long side) Proportionally scaled * (Short side) 2160	30000	18000	
8K		(Long side) Proportionally scaled * (Short side) 4320	75000	45000	256
MPEG2	SD	(Long side) Proportionally scaled * (Short side) 480	1800	1080	64
	HD	(Long side) Proportionally scaled *	3750	2250	96

		(Short side) 720			
	FHD	(Long side) Proportionally scaled * (Short side) 1080	9000	5400	
	2K	(Long side) Proportionally scaled * (Short side) 1440	12000	7200	128
	4K	(Long side) Proportionally scaled * (Short side) 2160	30000	18000	
VP8	SD	(Long side) Proportionally scaled * (Short side) 480	1560	936	64
	HD	(Long side) Proportionally scaled * (Short side) 720	3250	1950	96
	FHD	(Long side) Proportionally scaled * (Short side) 1080	7800	4680	
	2K	(Long side) Proportionally scaled * (Short side) 1440	10400	6240	128
	4K	(Long side) Proportionally scaled * (Short side) 2160	26000	15600	

## Audio Transcoding Templates

### 1. General Audio Transcoding Template

MPS provides preset General Audio Transcoding Templates, which can be used directly. You can also click [Create template](#) to customize your own General Audio Transcoding Templates.

#### Table of Detailed Configuration Item Description

Item	Description

Template Name	Support Chinese characters, letters, digits, underscores, hyphens, and dots, with a length of up to 64 chars.
Container Format	MP3, FLAC, OGG, M4A.
Audio Parameter Encoding Standard	When the container format is MP3, the corresponding encoding standard is MP3. When the container formats are FLAC and OGG, the corresponding encoding standard is FLAC. When the container format is M4A, the corresponding encoding standards are MP3, AAC, and AC3.
Sample Rate	Multiple sample rates such as 32000Hz, 44100Hz, and 48000Hz are supported. For more details, see <a href="#">Appendix: Supported Audio Sample Rates</a> .
Bitrate (Audio Bitrate)	The audio bitrate can be the same as that of the source file or be customized within the range of [26, 256] (in Kbps).
Sound Channel	Mono-channel, Dual-channel.

Templates created are displayed in the [General Audio Transcoding Template](#) list. You can view, edit, or delete custom templates, but preset templates can be viewed only, not edited or deleted.

#### System Preset General Audio Transcoding Template List

Template Name	Template ID	Format	Bitrate	Codec	SoundSystem	SampleRate
Audio-M4A-24Kbps	1100	M4A	24kbps	AAC	Stereo	44100Hz
Audio-M4A-48Kbps	1110	M4A	48kbps	AAC	Stereo	44100Hz
Audio-M4A-96Kbps	1120	M4A	96kbps	AAC	Stereo	44100Hz
Audio-M4A-192Kbps	1130	M4A	192kbps	AAC	Stereo	44100Hz
Audio-M4A-256Kbps	1140	M4A	256kbps	AAC	Stereo	44100Hz
Audio-MP3-128Kbps	1010	MP3	128kbps	MP3	Stereo	44100Hz
Audio-MP3-320Kbps	1020	MP3	320kbps	MP3	Stereo	44100Hz

## 2. TSC Audio Transcoding Template

MPS provides preset TSC Audio Transcoding Templates, which can be used directly. You can also click [Create template](#) to customize your own TSC Audio Transcoding Templates.

**Table of Detailed Configuration Item Description**

Item	Description
Template Name	Support Chinese characters, letters, digits, underscores, hyphens, and dots, with a length of up to 64 chars.
Container Format	M4A
Audio Parameter Encoding Standard	AAC
Sample rate	Multiple sample rates such as 32000Hz, 44100Hz, and 48000Hz are supported.
Bitrate (Audio Bitrate)	The audio bitrate can be the same as that of the source file or be customized within the range of [26, 256] (in Kbps).
Sound Channel	Mono-channel, Dual-channel, Multichannel.

Templates created are displayed in the [TSC Audio Transcoding Template](#) list. You can view, edit, or delete custom templates, but preset templates can be viewed only, not edited or deleted.

### System Preset TSC Audio Transcoding Template List

Template Name	Template ID	Container Format	Audio Bitrate	Codec	SoundSystem	Sample Rate
TESHD-Audio-M4A-192Kbps	100730	M4A	192kbps	AAC	Stereo	44100Hz
TESHD-Audio-M4A-256Kbps	100740	M4A	256kbps	AAC	Stereo	44100Hz

## 3. Audio Adaptive Bitrate Streaming Template

MPS provides preset Audio Adaptive Bitrate Streaming Templates, which can be used directly. You can also click [Create template](#) to customize your own Audio Adaptive Bitrate Streaming Templates.

Item	Description	
Template Name	Support Chinese characters, letters, digits, underscores, hyphens, and dots, with a length of up to 64 chars.	
Template Description	The length cannot exceed 256 characters.	
Packaging Format	HLS, MPEG-DASH.	
Substream Information	Template	Substream parameters for <b>General Audio Transcoding</b> or <b>TSC Audio Transcoding</b> are selected.
Audio Parameters	Encoding standard	When the packaging format is HLS, the corresponding encoding standards are AAC and AC3. When the packaging format is MPEG-DASH, the corresponding encoding standards are AAC, MP3, FLAC, and AC3.
	Sample rate	Multiple sample rates such as 32000Hz, 44100Hz, and 48000Hz are supported.
	Audio Bitrate	The audio bitrate can be the same as that of the source file or be customized within the range of [26, 256] (in Kbps).
	Channel	Mono-channel, Dual-channel, Multichannel.
	More	Prerequisite: when the container format is HLS, this setting can be configured. More: when the output audio tracks and sound channels do not have a complete one-to-one correspondence with the input ones, this advanced setting can be used to adjust or mix the input audio tracks/sound channels. After expanding, you can configure the selector type, audio track serial number/sound channel serial number, and whether to enable manual mixing.
	Selector Type	If the input audio track has only one sound channel, select audio track SN. If the input audio track has multiple channels, select audio track SN + sound channel SN.
	Audio Track SN	Fill in the specific audio track serial numbers to indicate which input audio tracks you need to use. The audio track SN corresponds to the stream index value of an audio track. It can be 0 or a positive integer. Multiple audio track SNs should be separated by commas and filled in according to output sound channel SNs.
	Audio Track SN.Sound Channel SN	Fill in the specific audio track serial numbers and sound channel serial numbers to indicate which input audio tracks and sound channels you need to use. The integer parts represent audio track SNs, and the decimal parts represent sound channel SNs. The audio track SN is the stream index value of an audio track, which can be 0 or a positive integer. The decimal parts support a maximum

		of 2 decimal places, and the number should be in the range of 0 to 63. For example, for an audio track with a stream index value of 1, 1.0 represents the first sound channel of this audio track, and 1.1 represents the second sound channel of this audio track. Multiple values should be separated by commas, and the audio track SNs should follow the order of output sound channel SNs.
	Manual Mixing	<p>If manual mixing is not enabled, when you fill in the audio track SN, the system will sequentially use the filled audio tracks as the respective output sound channels of this output audio track in the order filled.</p> <p>If manual audio mix is not enabled, when you fill in the audio track SN.sound channel SN, the system will sequentially use the filled sound channels as the respective output sound channels of this output audio track in the order filled.</p> <p>Enable the feature of multi-audio track mixing and complete mixing settings based on multiple input audio tracks to meet the configuration requirements of output audio tracks.</p>
	Number of Input Channels	This number depends on the number of audio track SNs (or audio track/sound channel SNs) you have filled in.
	Number of Output Channels	Select the number of output sound channels.
	Mixing Details	<p>Configure the output audio track's sound channels based on the input audio tracks.</p> <p>The matrix's row data represents the input audio tracks, and the matrix's column data represents each sound channel of the output audio tracks.</p> <p>For each sound channel of the output audio tracks, you can configure in the corresponding column, fill in which input audio tracks are mixed to form this sound channel, and fill in the decibel value for the mixing of input audio tracks. The value can be filled with a number between -60 and 6, supporting up to 3 decimal places. Among them, -60 represents mute, 0 represents maintaining the original volume, and the default value is -60.</p> <p>For instance, if the L(0) channel in the first column is a mix of the audio track in the first row and the second row with original volume, fill '0' in the first column's first and second row input boxes.</p>
	Add Audio Track	<p>If you want to include multiple audio tracks in the output file and perform individual configuration for each track, you can do this through Add Audio Track.</p> <p>If More settings are not enabled and multiple audio tracks are not added, the number of audio tracks in the output will be consistent with the input.</p>

Templates created are displayed in the [Audio Adaptive Bitrate Streaming Template](#) list. You can view, edit, or delete custom templates, but preset templates can be viewed only, not edited or deleted.

### System Preset Template List

Template Name	Template ID	Packaging Format	Substreams	Substream details			
				Transcoding Type	Audio Bitrate	Codec	SoundSystem
Adaptive-PureAudio-HLS	30	HLS	1	Standard audio transcoding	Same as source audio	AAC	Stereo

## Appendix: Supported Audio Sample Rates

The supported audio sample rates vary according to different audio encoding standards, as detailed in the table below:

Audio Encoding Standard	AAC	MP3	Opus	PCM16	PCM24	FLAC	AC3
Supported Audio Sample Rates	7350Hz 8000Hz 11025Hz 12000Hz 16000Hz 22050Hz 24000Hz 32000Hz 44100Hz 48000Hz 64000Hz 88200Hz 96000Hz	8000Hz 11025Hz 12000Hz 16000Hz 22050Hz 24000Hz 32000Hz 44100Hz 48000Hz	8000Hz 12000Hz 16000Hz 24000Hz 48000Hz	48000Hz	48000Hz	8000Hz 16000Hz 22050Hz 24000Hz 32000Hz 44100Hz 48000Hz 88200Hz 96000Hz 176400Hz 192000Hz	32000Hz 44100Hz 48000Hz

**Note :**

When using the TSC Audio Transcoding feature with AAC audio encoding standard, the following audio sample rates are **unavailable**:

- 7350Hz
- 8000Hz
- 11025Hz
- 12000Hz

# Audio/Video Enhancement Template

Last updated : 2025-06-23 16:17:01

Leveraging the industry-leading AI processing models within MPS, alongside a plethora of applications in various business scenarios, the enhancement feature significantly elevates audio and video quality. It finds extensive application across OTT, e-commerce, and sporting events, delivering substantial business benefits through improvements in Quality of Experience (QoE) and Quality of Service (QoS).

## Overview

The system offers a selection of preset enhancement templates for your convenience. Additionally, you can create custom templates tailored to your specific business needs. By setting different processing parameters for various application scenarios, these templates facilitate easy reuse in future projects. The following provides a detailed explanation on how to create custom audio/video enhancement templates using the console and API.

## Scenario 1: Creating an Enhancement Template through the Console

1. When you create an enhancement template using the [console](#), go to **Template Management > Audio/Video Enhancement Template**, and then click **Create Template** to create a custom template.
2. Upon entering the Audio/Video Enhancement Template Creation page, the following parameters can be configured. For detailed parameter instructions, see [Configuration Description](#) section below.

### Note:

When you create an enhancement template through the console, it is not possible to cover all parameter configurations related to transcoding. In this case, if your requirement involves parameter configurations related to transcoding, it is recommended to use the API-based method to add an enhancement template. For details, see the section [Creating an Enhancement Template Through the API](#) below.

## Configuration Description

Configuration Item	Description
Template Name	Supports only Chinese, English, numerals, spaces, underscores (_), hyphens (-), and periods (.), with a length not exceeding 64 characters.

Container Format		MP4, FLV, HLS.
Type		Options include video enhancement and audio enhancement.
Basic Settings	Encoding Standard	H264, H265, AV1.
	Resolution	Supports setting based on video width and height or the longer and shorter sides.
Video Enhancement Details	Recommended Settings	We have preset recommended settings for scenarios such as user-generated short videos, HD films, games, and old film restoration. Clicking on different scenarios will automatically apply the corresponding enhancement settings. You can fine-tune based on the recommended parameters to achieve the most satisfactory effect.
	Frame Rate	Supports keeping the original or custom, with the frame rates limited to [1, 120].
	Super Resolution	<p>Super-resolution can identify the content and contours of the video, reconstruct the details and local features of the video in high definition, converting low-resolution videos into high-resolution ones, suitable for scenarios like old film restoration. Options include: low resolution model, high resolution model (default).</p> <ol style="list-style-type: none"> <li>1. Low resolution model: Focuses on processing low-resolution video frames, aiming to recover details and information from these frames. This model is faster and suitable for quick video processing.</li> <li>2. High resolution model (default): Aims to generate higher quality high-resolution video frames by learning the mapping from low to high resolution. This model is more complex, requiring more computational resources, but typically produces clearer, more realistic video frames.</li> </ol>
	Low-light Enhancement	Due to environmental conditions and limitations of the camera hardware, some scenes may suffer from a lack of brightness and contrast, resulting in dark images or missing details. Activating low light enhancement significantly improves the details and contrast in dark areas, enhancing the subjective quality of the human eye.
	HDR	<p>Supports HDR10, and HLG, offering a wider color gamut and more color details, providing higher-quality video content. Note: The encoding standard must be H.265 to enable HDR.</p> <ol style="list-style-type: none"> <li>1. HDR10: A static HDR standard that provides a broader range of colors and brightness.</li> <li>2. HLG (Hybrid Log-Gamma): Combines the advantages of SDR and HDR, allowing a single video stream to contain both SDR and HDR information, suitable for broadcasting and streaming applications.</li> </ol>

	Comprehensive Enhancement	Through AI's comprehensive analytical capabilities, it automatically balances the texture content in the image, enhancing key details while removing compression artifacts and jagged edges, thereby improving the overall subjective perception of the image.
	Color Enhancement	Color enhancement makes the image closer to real colors and enhances them to some extent to meet the preferences of the human eye.
	Detail Enhancement	Detail enhancement focuses on the details in the video that require attention (e.g., the grass on a sports field), making the image content clearer and richer.
	Face Enhancement	Through face detection, it enhances the areas of the video that the human visual system particularly focuses on, such as faces, making the details in these areas clearer and improving subjective perception.
	Scratches Removal	Scratch removal can repair scratches and snowflake spots in the video, restoring damaged content.
	Artifacts Removal	Due to multiple compressions of the video during transcoding or multiple transcoding processes, block effects, ringing effects, chroma bleeding, and mosquito noise are introduced, causing distortions that affect the visual effect. De-compression distortion effectively repairs distortions introduced by encoding.
	Video Noise Reduction	Random noise may be introduced during film shooting due to the camera and environment. This service offers denoising, eliminating random noise in the image without losing detail.
Audio Enhancement Details	Audio Noise Reduction	Intelligent audio denoising removes device noise, environmental noise, etc., suitable for scenarios such as recording classes and post-production of outdoor shooting.
	Audio Separation	Separates human voices from background sounds, or singing voices from accompaniment in audio-video files, creating independent audio materials for post-production artistic processing.
	Volume Equalization	1. Loudness Normalization: Maintains a consistent overall loudness level, making the playback sound similar in volume, avoiding issues of being too loud or too quiet, and providing a better auditory experience. 2. Volume Leveling: Smoothens overly loud audio segments, avoiding sudden volume changes, and providing a more stable auditory experience.
	Audio Improvement	1. Noise removal: Reduces unwanted noise or interference in the audio, improving the quality and clarity of the audio.

2. De-essing (Sibilance Suppression): Sibilance refers to the sharp, piercing sounds in audio, often produced when the sound source is close to the microphone. Suppressing sibilance aims to reduce or eliminate this unnatural sound, thereby improving audio quality.

## Scenario 2: Creating an Enhancement Template Through the API

When creating a template through the API, you can configure parameters related to transcoding. For the complete list of parameters, see [Creating a Transcoding Template](#). Below is an example of creating an enhancement template.

```
{
  "Container": "mp4",
  "Name": "test",
  "VideoTemplate": { //Video transcoding parameter configuration.
    "Codec": "h264",
    "Fps": 50,
    "Bitrate": 5000,
    "Width": 0,
    "Height": 0,
    "Gop": 0
  },
  "AudioTemplate": { //Audio transcoding parameter configuration.
    "Codec": "aac",
    "Bitrate": 60
  },
  "EnhanceConfig": { //Enhancement parameter configuration.
    "VideoEnhance": { //Video enhancement configuration.
      "FrameRate": { //Frame interpolation.
        "Switch": "ON",
        "Fps": 50
      },
      "SuperResolution": { //Super resolution.
        "Switch": "ON",
        "Type": "lq"
      }
    },
    "AudioEnhance": { //Audio enhancement configuration.
      "Denoise": { //Audio denoising.
        "Switch": "ON"
      }
    }
  }
}
```

**Note:**

[API Explorer](#) supports quick verification. Enter the page and fill in relevant parameters, and then you can initiate an online API call.

# Watermark Template

Last updated : 2023-03-03 14:23:56

1. MPS does not provide preset watermark templates. You can click **Create template** to customize watermark templates.

Item	Description
Template Name	Max 64 characters; supports Chinese characters, letters, digits, underscores (_), hyphens (-), and periods
Watermark type	Image watermark
Image	PNG or JPG images. For better visual experience, transparent images in PNG format are recommended. The image cannot exceed 200 KB in size or 200 x 200 px in dimensions.
Reference position	Upper left (default), upper right, lower left, or lower right, based on which you can change the position of the watermark image by adjusting the vertical and horizontal offset
Vertical offset	The percentage represents the ratio of the vertical distance between the watermark and reference position to the height of the video, which is used to specify the vertical position of the watermark.
Horizontal offset	The percentage represents the ratio of the horizontal distance between the watermark and reference position to the width of the video, which is used to specify the horizontal position of the watermark.
Image dimensions	You can choose to resize the watermark by percentage (%) or pixel (px).

2. The templates created can be found in the watermark template list, which displays watermark previews and information including template name, format, type, reference position, dimensions, etc. You can also view the details of, edit, or delete a template on this page.

# Screenshot Template

Last updated : 2023-03-03 14:24:48

MPS provides preset screenshot templates, which can be added directly to a scheme. Three types of screenshots are supported: time point screenshot, sampled screenshot, and image sprite screenshot. You can also click **Create template** to customize your own screenshot templates.

## Time Point Screenshot

Select the **Time point screenshot template** tab, click **Create template**, and set the template name and screenshot dimensions. You need to specify the time points in scheme settings. For detailed directions, see [Schemes](#).

Item	Description
Template name	Max 64 characters; supports Chinese characters, letters, digits, underscores (_), hyphens, and periods (.)
Image format	JPG
Image dimensions	The width and height of the image must be in the range of 128-4096 px.

Preset Templates:

Template ID	Format	Width	Height	Fill Mode
10	JPG	Same as source	Same as source	Scale to fill

## Sampled Screenshot

Select the **Sampled screenshot template** tab and click **Create template**.

Item	Description
Template name	Max 64 characters; supports Chinese characters, letters, digits, underscores (_), hyphens (-), and periods
Image format	JPG
Image dimensions	The width and height of the image must be in the range of 128-4096 px.

Sampling interval	The interval can be a percent value (%) or a time value (s). If % is selected, the value entered cannot exceed 100.
-------------------	---

Preset Templates:

Template ID	Format	Width	Height	Interval Measurement	Interval	Fill Mode
10	JPG	Same as source	Same as source	By percent	10%	Scale to fill

## Image Sprite Screenshot

Select the **Image sprite screenshot template** tab and click **Create template**.

Item	Description
Template name	Max 64 characters; supports Chinese characters, letters, digits, underscores (_), hyphens, and periods (.)
Image format	JPG
Image dimensions	The width and height of the image must be in the range of 128-4096 px.
Sampling interval	The interval can be a percent value (%) or a time value (s). If % is selected, the value entered cannot exceed 100.
Rows	A positive integer. The number of subimage rows multiplied by subimage columns must not exceed 100.
Columns	A positive integer. The number of subimage rows multiplied by subimage columns must not exceed 100.

The templates created can be found in the screenshot template list, which displays information including template name, screenshot type, image dimensions, and template type. You can also view the details of, edit, or delete a template on this page.

### Preset templates

Template ID	Format	Subimage Width	Subimage Height	Subimage Rows	Subimage Columns	Interval Measurement	Interval (s)
10	JPG	142	80	10	10	By time	10

## Animated Screenshot

MPS provides preset animated screenshot templates, which can be added directly to a scheme. You can also select the **Animated screenshot template** tab and click **Create template** to customize your own animated screenshot templates.

You can set the image format, frame rate, image dimensions and image quality when creating a template, but the time period for generating an animated screenshot must be specified in scheme settings. For detailed directions, see [Schemes](#).

Item	Description
Template name	Max 64 characters; supports Chinese characters, letters, digits, and underscores (_)
Image format	WEBP or GIF
Frame rate (fps)	1-30
Image quality	0-100. The larger the value, the higher the quality and the larger the image size.
Image dimensions (px)	0 or 128-4096 for either dimension

The templates created can be found in the template list, which displays information including template name, image type, frame rate, image quality, image dimensions, and template type. You can view, edit, or delete a custom template, but preset templates can be viewed only, not edited or deleted.

### Preset templates

Template ID	Format	Resolution	Frame Rate (fps)
20000	GIF	Same as source	2
20001	WebP	320 x Proportionally scaled	2

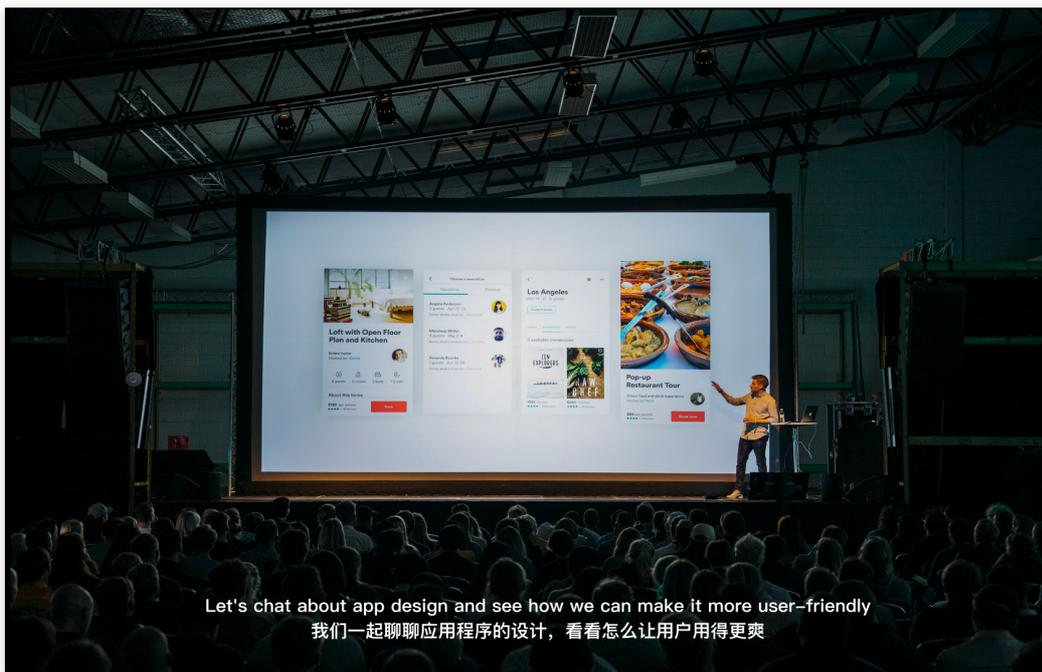
# Media AI Template

## Smart Subtitle Template

Last updated : 2025-03-06 11:07:49

### Overview

The smart subtitle feature can perform Automatic Speech Recognition (ASR) on the voice information in on-demand video files or live streams, convert it into subtitles, and translate it into multiple languages. It is suitable for scenarios such as live subtitles for streaming and video translation for overseas distribution. You can create custom smart subtitle templates and preset different process parameters for different use cases, to facilitate subsequent reuse.



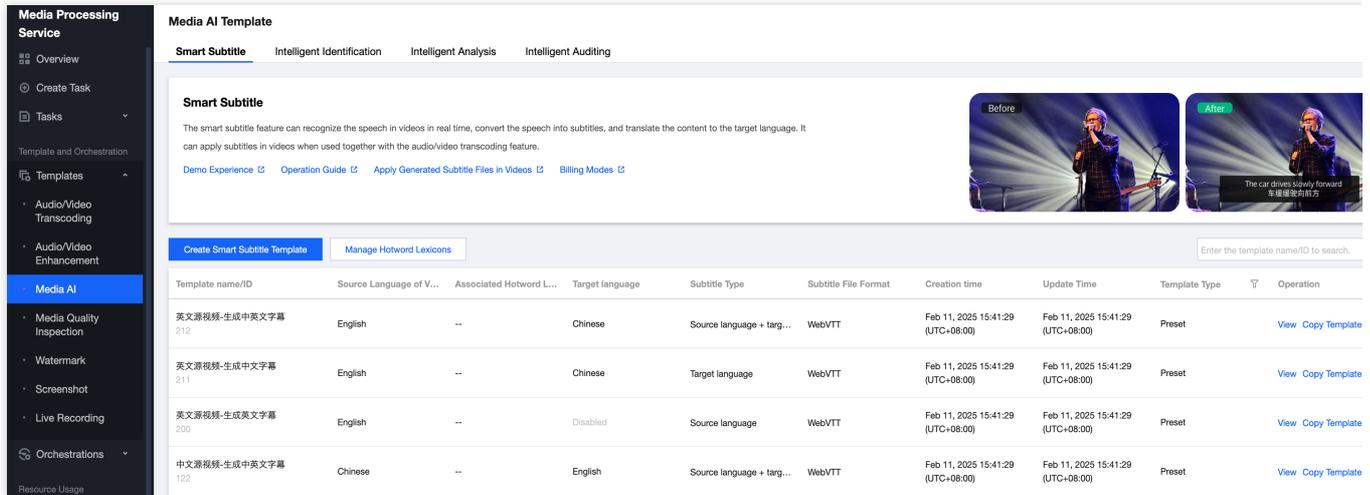
Let's chat about app design and see how we can make it more user-friendly  
我们一起聊聊应用程序的设计，看看怎么让用户用得更爽

### Prerequisites

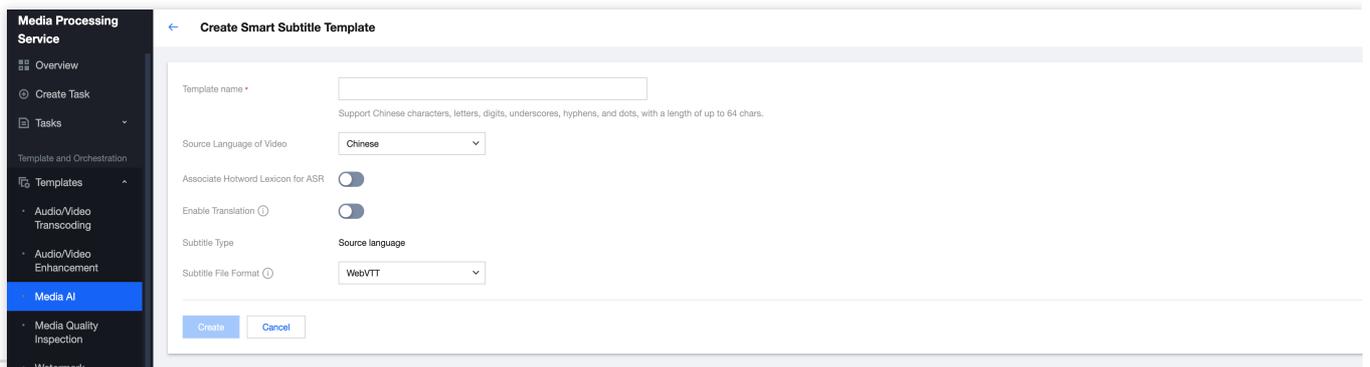
1. You have [signed up for a Tencent Cloud](#) account.
2. You have activated [Media Processing Service \(MPS\)](#) and logged in to the [MPS Console](#).

### Template Configuration Guide

Go to **Templates > Media AI Template > Smart Subtitle**. The system provides several preset templates that you can use directly, or you can click **Create Smart Subtitle Template** to create a custom template.



Enter the smart subtitle template creation page. The following configuration parameters are supported:



Configuration Item	Description
Template Name	Only Chinese characters, English letters, digits, underscores (_), hyphens (-), and periods (.) are supported, and the length should not exceed 64 characters.
Source Language of Video	Select the source language of the source video's audio. Currently, the following languages are supported: Simplified Chinese, English, Japanese, Korean, Chinese-English-Cantonese, Medical Chinese, Cantonese, Vietnamese, Malay, Indonesian, Filipino, Thai, Portuguese, Turkish, Arabic, Spanish, Hindi, French, German, Italian, Russian, and Chinese dialects.  Among them, the following languages are supported for enabling the translation feature: Simplified Chinese, English, Japanese, Korean, Vietnamese, Malay, Thai, Portuguese, Turkish, Arabic, Spanish, Hindi, and French.
Associate Hotword Lexicon for ASR	Commonly used words in speech are generally accurately recognized. However, for specific names (such as personal names, product names, and company names), and industry-specific terms (such as the brand name Zhilin, the building name Binhai Dasha, Hebao in

	<p>the insurance field, or Cunchutong in cloud storage), the recognition accuracy may decrease. To address this issue, we provide a custom hotword lexicon feature. You can add specialized terms through manual input or file import, significantly improving the accuracy of ASR. For detailed configuration guidance, see the <a href="#">Custom Hotword Lexicon</a> documentation.</p> <p><b>Note:</b></p> <p>Currently, the hotword lexicon only supports Mandarin and English languages. Therefore, the hotword lexicon can only be associated when the source language of the video's audio is Simplified Chinese or English.</p>
Enable Translation	<p>After this feature is enabled, the subtitles in the source language will be translated into the specified language, making it suitable for scenarios such as video translation for overseas distribution.</p> <p>The following target languages are supported: Simplified Chinese, English, Japanese, Korean, French, Spanish, Italian, German, Turkish, Russian, Portuguese, Vietnamese, Indonesian, Malay, Thai, Arabic, and Hindi.</p>
Subtitle Type	<p>If the translation feature is not enabled, the output subtitles will only contain content in the source language.</p> <p>When the translation feature is enabled, the following subtitle output types are supported: Subtitles in the target language. Subtitles in both the source language and the target language.</p>
Subtitle File Format	<p>Currently, the WebVTT format is supported. If you only need a subtitle content callback and do not require an actual subtitle file to be generated, you can select "Do Not Generate Subtitle Files".</p>

# Custom Hotword Lexicon

Last updated : 2025-03-05 18:03:20

## Overview

The smart subtitle feature utilizes Automatic Speech Recognition (ASR) technology to accurately identify commonly used words. However, for specific names (such as personal names, product names, and company names), and industry-specific terms (such as the brand name Zhilin, the building name Binhai Dasha, Hebao in the insurance field, or Cunchutong in cloud storage), the recognition accuracy may decrease. To address this issue, we provide a custom hotword lexicon feature, allowing users to add hotwords to significantly improve the recognition accuracy of specialized terms. When recognizing speech, if homophones with the same tone are encountered, the system will prioritize hotwords with higher weights.

## Prerequisites

1. You have [signed up for a Tencent Cloud](#) account.
2. You have activated [Media Processing Service \(MPS\)](#) and logged in to the [MPS Console](#).

## Creating a Lexicon

### Creation Guide

1. Go to **Templates > Media AI Template > Smart Subtitle**. On the smart subtitle template list page, click **Manage Hotword Lexicons** to open the custom hotword lexicon list.

The screenshot shows the MPS console interface. On the left, the 'Media AI Template' section is expanded to 'Smart Subtitle'. A red box highlights the 'Manage Hotword Lexicons' button, with a red arrow pointing to the right. On the right, the 'Custom Hotword Lexicon' page is displayed, featuring a 'Create Lexicon' button and a table of existing lexicons.

Lexicon Name	Lexicon ID	Numb...	Creation time ↓	Update Time ↑	Operation
test_vw	hwd-01d8983af36fba59644	2	Feb 25, 2025 16:26:50...	Feb 25, 2025 16:26:50...	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>

2. Click **Create Lexicon**. You can enter hotwords by manually inputting or file import.

If you add hotwords through manual input, use English commas to separate multiple hotwords, and use the English symbol "|" to separate a hotword from its weight. Example: Tencent Cloud|10, Automatic Speech Recognition|5, ASR|11.

If you add hotwords through file import, the file should be in UTF-8 or GBK encoding format. Each line should contain only one hotword and its corresponding weight (separated by the English symbol "|"), and cannot include any punctuation or special characters. An example of a hotword file is as follows:

```
腾讯|10
十一|6
eleven|6
blockchain|7
zoy|5
```

## Hotword Configuration Descriptions

It is not recommended that you add commonly used general words, such as customer or friend, as hotwords. Adding too many general words may reduce the recognition accuracy of specialized terms.

It is recommended that you replace numbers with corresponding Chinese characters according to their pronunciation. For example, 689 yuan should be replaced with six hundred eighty-nine yuan.

The larger the weight of a hotword, the higher the probability of it being recognized. The range of hotword weights is integers from 1 to 11, as well as the number 100. The specific correspondence is as follows:

When the hotword weight is set within the range from 1 to 10, the hotword is considered a **general hotword**, and its effectiveness increases as the value grows.

When the weight of a hotword is set to 11, the hotword becomes a **super hotword**. It is recommended that the weight is set to 11 only for critical and necessary hotwords. The overall accuracy will be affected if the weight is set to 11 for too many hotwords.

When the weight of a hotword is set to 100, the hotword becomes an **enhanced hotword**, and homophones of the hotword will be replaced. Specify the weight with caution.

**Note :**

The Enhanced Hotword (with a weight of 100) exclusively supports the Mandarin Chinese language.

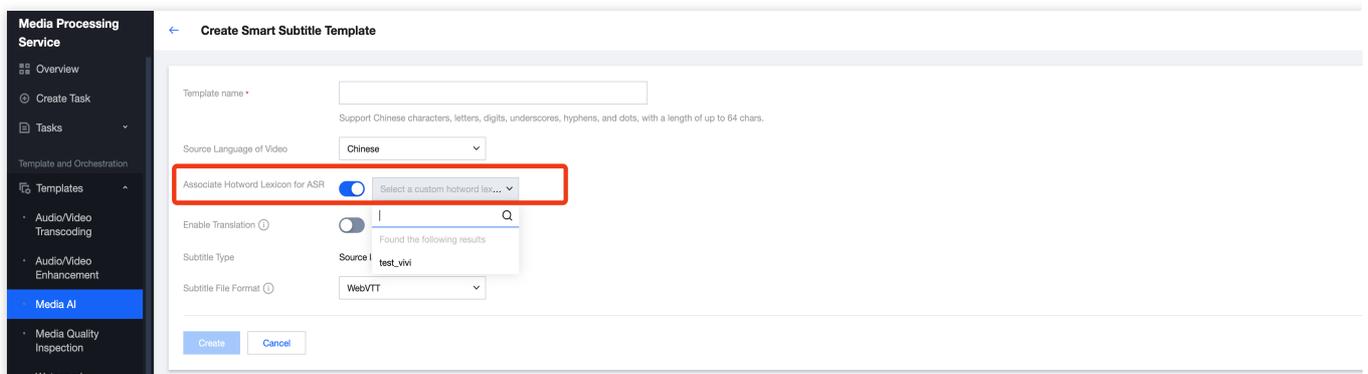
Each hotword list can contain up to **128 hotwords** (if you need to add more, please [contact us](#)).

Each hotword can be up to 10 Chinese characters or 30 English letters long, and cannot contain punctuation or special characters. The limit cannot be exceeded.

Adding hotwords can significantly improve recognition accuracy and is one of the important ways to quickly enhance the recognition of specialized terms. However, there may still be cases where correct recognition is not possible. You should first ensure that the audio clarity and quality meet the standards, meaning that an average person can correctly transcribe the text after listening to the recording once.

## Associating the Hotword Lexicon with the Template

Refer to [Smart Subtitle Template](#) documentation, enable **Associate Hotword Lexicon for ASR** feature in template configuration, and select your created custom hotword lexicon.



### Note:

Currently, the hotword lexicon only supports Mandarin and English languages. Therefore, the hotword lexicon can only be associated when the source language of the video's audio is Simplified Chinese or English.

## Viewing a Hotword Lexicon

Go to **Smart Subtitle > Manage Hotword Lexicon**, click **View** in lexicon operations, and you can preview the lexicon details.

The screenshot shows the Media AI Template interface. On the left is a navigation menu with options like Overview, Create Task, Tasks, Templates, Audio/Video Transcoding, Audio/Video Enhancement, Media AI, Media Quality Inspection, Watermark, Screenshot, Live Recording, Orchestration, and Usage Statistics. The main content area is titled 'Media AI Template' and has tabs for Smart Subtitle, Intelligent Identification, Intelligent Analysis, and Intelligent Auditing. The 'Smart Subtitle' tab is active, showing a description of the feature and a table of templates. The 'Hotword Lexicon' section on the right displays details for a lexicon named 'test', including its ID, update time, and number of hotwords. Below this is a 'Hotword Preview' table with columns for 'Hotword' and 'Weight'.

Hotword	Weight ↓
eleven	10
Tencent	10
suva	1

At the bottom of the preview, it shows 'Total items: 3' and pagination controls for 10 items per page, currently on page 1 of 1.

## Modifying a Hotword Lexicon

Go to **Smart Subtitle > Manage Hotword Lexicon**, click **Edit** in lexicon operations, and you can modify the lexicon configuration.

If hotwords are added through file import, you can modify them by re-uploading the file.

The screenshot shows the 'Edit Hotword Lexicon' configuration page. The 'Lexicon Name' is 'hotword\_test'. Below it, there are instructions: 'Support only letters, digits, underscores, and hyphens, with no more than 30 characters.' The 'Hotword' section has two radio buttons: 'Enter manually' (selected) and 'Import file'. The manually entered hotword is 'Tencent|10,suva|1,eleven|10'. Below this is a list of four instructions for configuring hotwords, followed by a 'View More Hotword Configuration Guides' link. At the bottom, there are 'Confirm' and 'Cancel' buttons.

- Multiple hotwords are separated by commas, with a maximum of 128 hotwords.
- Use the symbol "|" to separate a hotword and its weight, such as Tencent|10,ASR|10.
- Each hotword should not exceed 10 Chinese characters or 30 English characters. Punctuation and special characters are not allowed.
- The greater the weight of a hotword, the greater the probability that the hotword can be recognized. The hotword weight can be an integer between [1,11] or 100. The specific description is as follows:
  - When the weight of a hotword is between 1 and 10, the hotword is a general hotword, and the recognition possibility increases with the increase of the weight.
  - When the weight of a hotword is set to 11, the hotword becomes a super hotword. It is recommended that you set the weight of only the key and required hotwords to 11. If the weight of too many hotwords is set to 11, the recognition accuracy will be affected.
  - When the weight of a hotword is set to 100, the hotword becomes an enhanced hotword, and homophones or hotword will be replaced. Specify the weight with caution.

## Deleting a Hotword Lexicon

On the custom hotword lexicon page, find and select the lexicon you want to operate, then click **Delete** on the right side to delete the lexicon.

If a hotword lexicon is associated with a template, it cannot be deleted directly. You need to unbind it from the template first. To do this, you can enter the smart subtitle template page, edit the template, and remove the association with the hotword lexicon.

Media Processing Service

Media AI Template

Smart Subtitle Intelligent Identification Intelligent Analysis Intelligent Auditing

### Smart Subtitle

The smart subtitle feature can recognize the speech in videos in real time, convert the speech into subtitles, and translate the content to the target language. It can apply subtitles in videos when used together with the audio/video transcoding feature.

[Demo Experience ID](#) [Operation Guide ID](#) [Apply Generated Subtitle Files in Videos ID](#) [Biling Modes ID](#)

[Create Smart Subtitle Template](#) [Manage Hotword Lexicons](#)

Template name/ID	Source Language of V...	Associated Hotword L...	Target language	Subtitle Type	Subt...
英文源视频-生成中英文字幕 210	English	—	Chinese	Source language + targ...	Web

### Custom Hotword Lexicon

[Operation Guide](#)

Custom hotwords can significantly improve the accuracy of the smart subtitle feature in recognizing hotwords in videos. Homophonic hotwords are recognized by weight. Currently, only hotwords in Simplified Chinese and English can be configured. Updated hotwords take effect 10 minutes after the update.

[Create Lexicon](#)

Lexicon Name	Lexicon ID	Numb...	Creation time ↓	Update Time ↑	Operation
test	hwd-06b0463e1aa83c388246	3	Feb 25, 2025 16:50:25...	Feb 25, 2025 16:50:25...	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
test_vvv	hwd-01d8983af56b7ba59644	2	Feb 25, 2025 16:26:50...	Feb 25, 2025 16:26:50...	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>

Total items: 2 10 / page 1 / 1 page

# Intelligent Identification Template

Last updated : 2024-09-29 16:21:17

## Operation scenarios

The MPS Intelligent Identification Template is designed for scenarios requiring II on videos, such as Face Identification, Text identification, Speech identification, Speech translation, and Object identification. You can directly use the II preset template provided by the system in Service Orchestration Management or create an Intelligent Identification Template as per your business needs via Definition. Created templates will be displayed in the template list and can be managed through filter and view, editing, and deletion operations.

## Prerequisites

1. You have [registered a Tencent Cloud account](#) and completed identity verification.
2. Activated [Tencent Cloud MPS service](#), and log in to [the MPS Console](#).

## Operation Description

Go to **Templates** > [Intelligent Identification](#), click **Create Intelligent Identification Template** to enter the template Definition settings interface, where you can set the template name and Identification Items.

Identification Items	Description
Template Name	Support Chinese characters, letters, digits, underscores (_), hyphens (-), and dots (.), with a length of up to 64 chars.
Identification Items	Identification items include Face Identification, Text identification, Speech identification, Speech translation, and Object identification.

### ← Create Intelligent Identification Template

Template name

Support Chinese characters, letters, digits, underscores, hyphens, and dots, with a length of up to 64 chars.

---

**Identification Items**

Face Identification

Text identification

Speech identification

Speech translation

Object identification

---

**Note:**

You can view the **preset** Intelligent Identification template on the [MPS Console > Intelligent Identification Template](#) page.

## Face Identification

Face Identification can set Filter Score and Filter Tags.

Filter Score is used to constrain the confidence of recognition results. The value range is 0-100, and the default value is 95. When the recognition result reaches the specified score or above, the result is returned.

You can filter by tags "Entertainment celebrity," "Sports celebrity," and "Political figure." The corresponding tag results will be returned after selection; otherwise, all results will be returned.

### Identification Items

Face Identification

Filter Score   
When the identification result reaches above the score, the identification result will be returned. The value ranges from 0 to 100, and the default value is 95.

Filter Tags   
 Entertainment celebrity  
 Sports celebrity  
 Political figure

Text identification

Speech identification

Speech translation

Object identification

## Speech identification

To enable speech identification, you need to select the source language of the video. To generate subtitle files after recognizing the speech, you need to choose the subtitle file format.

### Note:

The current subtitle file feature is valid only for on-demand tasks and on-demand files, not for ASR tasks initiated by live streaming.

**Identification Items**

Face Identification

Text identification

Speech identification

Source language Chinese ▼

Subtitle File Format No subtitle file generated ▼

Subtitle file function is only effective for VOD tasks.

Speech translation

Object identification

Create
Cancel

The currently supported languages are listed in the table below:

Source language					
Chinese	English	Japanese	Korean	Chinese-English-Cantonese	Chinese Medical
Cantonese	Vietnamese	Malay	Indonesian	Filipino	Thai
Portuguese	Turkish	Arabic	Spanish	Hindi	French
German	Italian	Russian	Chinese Dialect	-	-

### Speech translation

To enable the speech translation feature, you need to select the source language and the target language. To generate subtitle files after translating the language, you need to choose the subtitle file format.

**Identification Items**

Face Identification

Text identification

Speech identification

Speech translation

Source language Chinese ▼

Target language English ▼

Subtitle File Format No subtitle file generated ▼

Subtitle file function is only effective for VOD tasks.

Object identification

Create
Cancel

**Note:**

The current subtitle file feature is valid only for on-demand tasks and on-demand files, not for ASR tasks initiated by live streaming.

The currently supported languages are listed in the table below:

Source language				
Chinese	English	Japanese	Korean	Vietnamese
Malay	Thai	Portuguese	Turkish	Arabic
Spanish	Hindi	French	-	-

**Text identification**

After enabling text identification, the OCR results within the video will be returned via callback. Currently, Chinese and English are supported, other languages are not supported yet.

## Object identification

After enabling object identification, the object recognition results within the video will be returned via callback.

Common objects are recognized by default. If you have specific identification requirements, please [submit a ticket](#) or contact the product research and development team.

# Intelligent Analysis Template

Last updated : 2024-06-12 14:57:52

The system provides preset intelligent analysis templates, which you can directly use in workflow management. You can also create your own intelligent analysis templates based on business needs. Click **Create Intelligent Analysis Template** to enter the template customization settings.

Configuration Item	Description
Template Name	Max 64 characters; supports Chinese characters, letters, digits, spaces, underscores (_), hyphens (-), and periods (.)
Content analysis configuration	Intelligent labeling, intelligent categorization, intelligent thumbnail generation, and frame-specific labeling

**Note:**

You can view the **system preset** intelligent analysis templates in [MPS console > Intelligent Analysis Templates](#). The templates created are displayed in the content analysis template list, where you can view the details of, edit, or delete a template.

# Intelligent Review Template

Last updated : 2024-06-12 14:55:33

1. MPS provides preset moderation templates, which can be added directly to a scheme. You can also click **Create template** to customize your own moderation templates.

Template name: Up to 64 characters; supports Chinese characters, letters, digits, spaces, underscores (\_), hyphens (-), and periods (.).

Moderation items: Image recognition, speech recognition, and text recognition. The subitems of the selected moderation items will appear in the column on the right.

Moderation Item	Subitem	Description
Image recognition	Pornographic content	Porn, vulgarity, intimacy, and sexiness
	Terrorist content	Bloody scenes, explosions, and fires
	Politically sensitive content	Banned icons, and celebrities in sports and the entertainment industry
Speech recognition	Pornographic content	Porn, vulgarity, intimacy, and sexiness
	Politically sensitive content	Banned icons, and celebrities in sports and the entertainment industry
Text recognition	Pornographic content	Porn, vulgarity, intimacy, and sexiness
	Politically sensitive content	Banned icons, and celebrities in sports and the entertainment industry

2. For each subitem, you can set a **Confirm Threshold** and a **Suspicion Threshold**, which determine the strictness of moderation. If they are left empty, the default values will be used.

**Confirm threshold:** MPS analyzes the videos uploaded and gives them confirmation scores. If the score of a video exceeds the confirm threshold, the video will be marked confirmed. The value range of the threshold is 0-100. The default value is recommended.

**Suspicion threshold:** MPS analyzes the videos uploaded and gives them suspicion scores. If the score of a video exceeds the suspicion threshold, the video will be marked suspicious. You can initiate human moderation for suspicious videos on the video moderation page. The value range of the threshold is 0-100. The default value is recommended.

**Note:**

You can view the **system preset** auditing templates in [MPS console > Intelligent Auditing Templates](#).

3. The templates created are displayed in the moderation template list, where you can view the details of, edit, or delete a template.

# Stream Record Template

Last updated : 2025-05-13 14:42:23

1. MPS provides preset stream record templates. You can click **Create template** to customize stream record templates. Fill in the corresponding information on the create template page.

Item	Description
Template name	Max 64 characters; supports Chinese characters, letters, digits, underscores (_), hyphens (-), and periods
Template description	Max 256 characters; supports Chinese characters, letters, digits, underscores (_), hyphens (-), and periods
Recording format	Support HLS and MP4. For HLS format, you can configure: each TS segment duration, max recording duration, and resumption timeout. For MP4 format, you can configure: max recording duration.
TS segment duration	Must be in the range of 5~30 seconds.
Max recording duration	Must be in the range of 10~720 minutes. After exceeding the set max recording duration, a new file will be generated.
Resumption timeout	The resumption timeout period directly affects the time it takes to generate a recording file. When the interval of stream interruption does not exceed the set resumption timeout period, a single live stream will generate only one file. Please set a reasonable resumption timeout period, must be in the range of 60~1800 seconds. If not filled, it signifies that the resumption feature is disabled.

2. The templates created can be found in the [stream record template list](#), which displays information including template name, template description, recording format, each TS time, recording cycle, resumption timeout. You can also view the details of, edit, or delete a template on this page.

# Media Quality Inspection Template

Last updated : 2024-09-14 10:58:40

## Overview

The media quality inspection service can comprehensively identify issues in media assets, verify whether the contents meet the requirements, and offer suggestions. Users may directly use the preset templates or create media quality inspection templates in the console to customize quality inspection parameters.

Media Quality Inspection Template				
Create Media Quality Inspection Template				Search by template
Template name/ID	Creation time	Update Time	Template Type	Operation
Picture Quality Detection 40	Jun 19, 2024 09:59:09 (UTC+08:00)	Aug 26, 2024 10:20:19 (UTC+08:00)	Preset	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Quality Scoring 30	Jun 19, 2024 09:59:09 (UTC+08:00)	Jun 27, 2024 10:06:24 (UTC+08:00)	Preset	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Container Diagnosis 20	Jun 19, 2024 09:59:09 (UTC+08:00)	Jun 27, 2024 10:06:24 (UTC+08:00)	Preset	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Universal Template 10	Jun 19, 2024 09:59:09 (UTC+08:00)	Aug 26, 2024 10:19:51 (UTC+08:00)	Preset	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Total items: 4			10 / page	1 / 1 page

The quality inspection contents include:

**Format diagnosis:** Media diagnosis is a cloud-based audio and video processing service designed for real-time diagnosis of media streams. It can be used to analyze exceptions in stream information, temporal information, stream status, container encapsulation, and decoding.

**No-reference scoring:** It refers to scoring the quality of a video without a reference, with scores ranging from 0 to 100.

**Image quality:** It provides a variety of quality inspection features, including but not limited to detection of screen glitch, black screen, jitter, noise, mosaic, low light, QR code, barcode, and mini program code.

**Sound detection:** It provides a variety of quality inspection features, including but not limited to detection of no voice, low voice, and high voice.

## Description of Quality Inspection Template Parameters

Detection Type	Detection Item	Parameter Description
----------------	----------------	-----------------------

Format diagnosis	Format diagnosis	Media diagnosis is a cloud-based audio and video processing service for real-time diagnosis of media streams. It can be used to analyze exceptions in stream information, temporal information, stream status, container encapsulation, and decoding.
Quality score	No-reference scoring	<p>When it is enabled, the system will activate the no-reference scoring and low-quality detection.</p> <p>Reference scores:</p> <p>40-60: substandard quality;</p> <p>60-80: average quality;</p> <p>80-100: superior quality.</p> <p>Two parameters can be configured: "threshold" and "detection interval". The threshold corresponds to the score given by the no-reference scoring feature, and a report will be generated when the score falls below the set threshold. The detection interval is measured in milliseconds (ms).</p>
Image quality issues	Mosaic detection	<p>Detects the presence of mosaic in the image. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold corresponds to the confidence level of mosaic detection, and a report will be generated when the detected confidence level is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
	Screen glitch detection	<p>Detects the presence of screen glitches in the image. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold corresponds to the confidence level of the screen glitch detection, and a report will be generated when the detected confidence level is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
	Blur detection	<p>Detects whether the image is blurry. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold serves as the evaluation benchmark during detection. The higher the threshold is set, the more likely an image is to be deemed blurry. The detection interval is measured in milliseconds (ms).</p>
	Jitter detection	<p>Detects whether the image has jitter and ghosting issues. The "threshold" parameter can be configured.</p> <p>The threshold serves as the benchmark for determining jitter. The higher the threshold is, the more severe the jitter will be. A report will be generated when the jitter severity is greater than the set threshold.</p>
	Noise detection	<p>Detects whether there is noise in the image. Two parameters can be</p>

		<p>configured: "threshold" and "detection interval".</p> <p>The threshold serves as the benchmark for determining noise. The higher the threshold is, the more obvious the noise will be. A report will be generated when the intensity level is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
	QR code detection	<p>Detects whether there is a QR code in the image. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold corresponds to the confidence level of QR code detection, and a report will be generated when the detected confidence level is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
	Barcode detection	<p>Detects whether there is a barcode in the image. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold corresponds to the confidence level of barcode detection, and a report will be generated when the detected confidence level is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
	Mini program code detection	<p>Detects whether there is a mini program code in the image. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold corresponds to the confidence level of mini program code detection, and a report will be generated when the detected confidence level is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
Solid color screen detection	Black and white edge detection	<p>Detects whether there are black and white edges around the image. The "detection interval" parameter can be configured in milliseconds (ms).</p>
	Solid color screen detection	<p>Detects whether the screen is a solid color screen. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold is defined as the percentage of pixels of the same color, and a report will be generated when the detected percentage is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
Brightness detection	Low light detection	<p>Detects whether the image is excessively dark. Two parameters can be configured: "threshold" and "detection interval".</p> <p>The threshold is defined as the percentage of low-light pixels, and a report will be generated when the detected percentage is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).</p>
	Overexposure	<p>Detects whether the image is overexposed. Two parameters can be</p>

	detection	configured: "threshold" and "detection interval". The threshold is defined as the percentage of overexposed pixels, and a report will be generated when the detected percentage is greater than or equal to the set threshold. The detection interval is measured in milliseconds (ms).
Sound detection	No voice detection	Detects whether the audio has no voice. The "detection interval" parameter can be configured in milliseconds (ms).
	Low voice detection	Detects whether the voice of the audio is too low. Two parameters can be configured: "threshold" and "detection interval". The threshold denotes the decibel level used to determine low voice, and a report will be generated when the audio decibel falls below the set value. The detection interval is measured in milliseconds (ms).
	High voice detection	Detects whether the voice of the audio is too high. Two parameters can be configured: "threshold" and "detection interval". The threshold denotes the decibel level used to determine high voice, and a report will be generated when the audio decibel exceeds the set value. The detection interval is measured in milliseconds (ms).

# Resource Packs

Last updated : 2023-03-03 11:44:11

## Overview

This page shows the general transcoding and Top Speed Codec (TSC) transcoding resource packs you have purchased and their usage.

## Viewing Resource Packs

Log in to the [MPS console](#) and select [Resource Packs](#) on the left sidebar. Under the **Resource packs** tab, you can view the information of the resource packs you have purchased.

**Resource pack management**

**Resource packs**    Usage details

Enter resource pack ID. Separate multiple IDs with ;   

Resource pack ID	Status	Type	Total minutes	Remaining minutes	Start time	End time	Operation
80002-25000007-40573	Valid	TESHD transcoding pack	3000	3000	2022-07-05	2023-07-04	Refund
70001-25000007-40542	Frozen	General transcoding pack	300	300	2022-06-23	2023-06-22	Refund
70001-25000007-40545	Exhausted	General transcoding pack	300	300	2022-06-23	2023-06-22	Refund
70001-25000007-40557	Exhausted	General transcoding pack	300	0	2022-06-27	2023-06-26	Refund
80002-25000007-40562	Exhausted	TESHD transcoding pack	3000	0	2022-06-28	2023-06-27	Refund

Total items: 5    10 / page    1 / 1 page

Header	Description
Resource pack ID	The unique identifier of a resource pack. You can enter a resource pack ID in the

	search box to search for a resource pack.
Status	<p>The current status of a resource pack, which may be valid, expired, frozen, or exhausted.</p> <p>Valid: The resource pack is valid and can be used.</p> <p>Frozen: The resource pack has been frozen for some reason and can no longer be used.</p> <p>Expired: The resource pack has expired and can no longer be used. The validity period of a resource pack is one year.</p> <p>Exhausted: The resource pack has been used up.</p>
Type	The resource pack type, which may be general transcoding or TSC transcoding. You can view only your general transcoding packs or TSC transcoding packs by selecting the corresponding type.
Total minutes	The total number of minutes a resource pack offers, which does not change after you start using the pack.
Remaining minutes	The number of remaining minutes in a resource pack, which decreases after you start using the pack. When the number of remaining minutes becomes zero, the status of the pack will become expired.
Start time	The time when a resource pack became valid.
End time	The time when a resource pack expires, which is one year after the start time.
Operation	You can click Refund to refund a resource pack. Note: Resource packs are refundable only within five days of purchase.

## Viewing Usages

Log in to the [MPS console](#) and select [Resource Packs](#) on the left sidebar. Under the **Usage details** tab, you can view the usage details of your resource packs.

**Media Processing Service**

- Overview
- Task Management
- Usage Statistics
- Workflow
  - Scheme Management
  - Buckets
  - Workflow Management
- Template Management
  - Audio/Video Transcoding Templates
  - Watermark Templates
  - Screenshot Templates
  - Content Discovery Templates
  - Moderation Templates
  - Audio/Video Enhancement Templates
- Resource Pack Management

### Resource pack management

Resource packs **Usage details**

Deduction time: 2022-06-28 ~ 2022-06-30  Query Reset

Deduction time ↓	Resource pack ID	Type ↑	Transcoding Type ↑	Minutes before deduction	Minutes after deduction
2022-06-30	80002-25000007-40562	TESHD transcoding pack	TESHD H.265 4K	1395	0
2022-06-29	80002-25000007-40562	TESHD transcoding pack	TESHD H.265 4K	2910	1395
2022-06-29	80002-25000007-40562	TESHD transcoding pack	TESHD H.265 4K	2924	2910
2022-06-29	80002-25000007-40562	TESHD transcoding pack	TESHD H.264 1080p	3000	2924
2022-06-28	70001-25000007-40557	General transcoding pack	General transcoding H.264 4K	140	0
2022-06-28	70001-25000007-40557	General transcoding pack	General transcoding H.264 2K	147	140
2022-06-28	70001-25000007-40557	General transcoding pack	General transcoding H.264 1080p	299	147
2022-06-28	70001-25000007-40557	General transcoding pack	General transcoding H.264 480p	300	299

Total items: 8 10 / page 1 / 1 page

You can view the deductions of a specific resource pack (**resource pack ID**) in a specific time period (**deduction time**).

Header	Description
Deduction time	The time when a deduction occurred.
Resource pack ID	The ID of the resource pack from which minutes were deducted.
Type	The resource pack type. You can select a type to view deductions for that type.
Transcoding type	The transcoding type of a deduction. The usages for the same transcoding type are added up each day.
Minutes before deduction	The remaining minutes of a resource pack before the deduction occurred.
Minutes after deduction	The remaining minutes of a resource pack after the deduction occurred.

# Video Evaluation

## Video Quality Assessment

Last updated : 2024-10-28 15:56:01

The video evaluation feature currently supports video quality evaluation and BD-rate evaluation. You can create evaluation tasks on the console video evaluation page, compare video transcoding quality and transcoding template effects, and support the presentation of visualized data results. Refer to [Billing Overview](#) for the pricing standards of related features.

## Use Case

### Transcoded Video Quality Evaluation

Choose the original video and comparison video, and evaluate the video quality score of the comparison video relative to the original video through PSNR, SSIM, and VMAF evaluation. Video sources can be selected from COS Storage, accessed via URL, or uploaded locally. The evaluation results can generate an overall evaluation score, a frame-by-frame score line chart, and a screenshot of the frame with the worst quality.

**Transcoding Evaluation**

[Video Quality Evaluation](#) [BD-Rate Comparison Evaluation](#) [Live Streaming Transcoding Quality Monitoring](#)

**Video Quality Evaluation**

Add original and comparison videos to perform video quality evaluation, supporting VMAF, PSNR, and SSIM evaluation methods.

[Create Video Quality Eval](#) [Operation Guide](#) [Billing Modes](#)

**i** The evaluation task list currently supports querying data from the last 7 days. The transcoding evaluation feature is currently in beta and available for a limited-time free trial.

Task ID	Status	Creation time	Completion Time	Operation
No tasks on the list. Go to <a href="#">Create a Video Quality Evaluation Task</a> .				

Total items: 0 10 / page

## Instructions

1. Create an evaluation task

Go to the Media Processing Service console's [Video Evaluation](#) page and click to **Create a Video Quality Evaluation Task**.

**Original Video**

Video Source:  Tencent Cloud storage  URL address  
 To upload local video files, please select a bucket in COS and upload the file.

Video File:

**Comparison Video**

Video File:

Files can be created through Cloud Object Storage (COS), URL, and transcoding templates. If you need to upload local video files, select a bucket in COS and upload the file.

File/Transcoding Template	Operation
Click the Select Files button above, limited to 10 or fewer.	

**Evaluation Settings**

Evaluation Criteria:  VMAF  PSNR  SSIM  VMAF-NEG

Evaluation Range:  Entire Video Duration  Custom Time Range  Custom frame range

More settings:

**Evaluation Result Storage Path**

Storage Path:

Comparison screenshot files will be stored in this path.

**Evaluation Results Indication**

4 Evaluation Methods

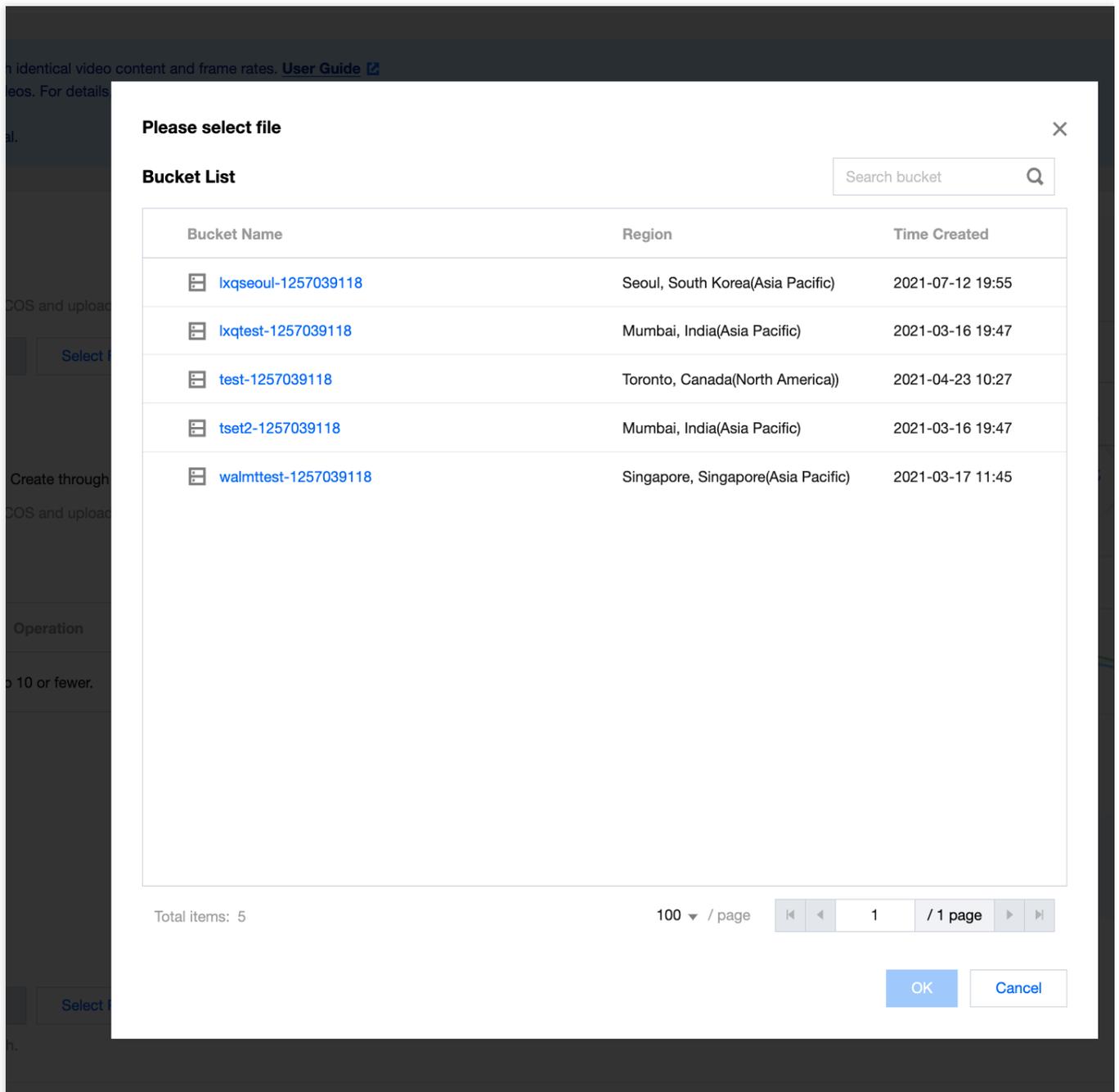
Evaluation Results Indication	Average Bitrate	VMAF	PSNR	SSIM	VMAF-NEG	Operation
Video 1	2479.81	91.201	42.026	0.978	91.105	<input type="button" value="Screenshot comparison"/> <input type="button" value="Side-by-side comparison"/>
Video 2	2482.66	91.963	42.742	0.981	91.835	<input type="button" value="Screenshot comparison"/> <input type="button" value="Side-by-side comparison"/>

Overall Score Comparison

Frame-by-Frame Score Comparison

Explanation:  
 The evaluation scores in the table are the average scores of each video;  
 Line charts display the quality scores by time, and a separate line chart will be generated for each evaluation criteria.

1.1 Choose the original video; this video will be used as the reference video during the evaluation. You can select video files from COS Storage, access videos via URL, or if using a local video file, please upload the file to COS and then select it through the COS.

**Note:**

The frame rate of the original video must match that of the comparison video because the evaluation is conducted on a frame-by-frame basis. If the frame rates differ, the content of the frames being evaluated will not be consistent and the results will not be relevant;

For users choosing to access videos via URL, ensure the URL is valid and allows the content to be downloaded over the internet; otherwise, video access will fail;

Uploading local files to COS Storage will incur related storage costs.

1.2 When selecting comparison videos, each one will be compared against the original video during evaluation, with a maximum of 10 comparison videos allowed per evaluation. Comparison videos can be selected from COS Storage or accessed via URL. If using a local video file, please upload the file to COS and then select it through the COS.

**Comparison Video**

Video File \*

Select File

Tencent Cloud storage

URL address

Create through a trans...

Cloud Object Storage (COS), URL, and transcoding templates. If you need a bucket in COS and upload the file.

Operation
Click the Select Files button above, limited to 10 or fewer.

Comparison videos can also be generated by initiating a transcoding task. Users can choose a transcoding template to generate videos by initiating transcoding tasks.

**Select template**

Please select a transcoding template with the same frame rate as the source video, as inconsistency in frame rates will render the evaluation scores non-referential.

Transcoding Type

General transcoding template  TSC transcoding template

It can reduce the video bitrate and change the encoding standard, resolution, frame rate, and other parameters of source videos, so as to adapt to playback on different terminals and in different network environments.

You can also [create a template](#) and then [refresh](#) this list.

Template ...	Container ...	Video E...	Bitrate (Kb...	Resolution (px)	Frame Rat...	Audio Enc...	Templ... ▾	Operation
STD-H264- 1080P	HLS	H.264	6000	Proportionally scaled * 2160 px	25 fps	AAC	Preset	<a href="#">View</a>
STD-H264- 720P	HLS	H.264	3000	Proportionally scaled * 1440 px	25 fps	AAC	Preset	<a href="#">View</a>
STD-H264- 480P	HLS	H.264	2500	Proportionally scaled * 1080 px	25 fps	AAC	Preset	<a href="#">View</a>

**Note:**

Choosing to generate via a transcoding template will incur transcoding costs by the billing rules for transcoding; Currently, it is not possible to mix and match multiple creation methods for comparison videos, such as COS Storage, URL, local upload, and transcoding templates. Comparison videos for each evaluation can only come from one of these methods.

1.3 In selecting evaluation methods, at least one of PSNR, SSIM, or VMAF can be chosen. During billing, each evaluation method will be calculated separately based on the number of evaluation frames.

For example: if the original video has 1,000 frames and 2 comparison videos are selected from COS, with PSNR, SSIM, and VMAF checked as evaluation methods, the cost incurred for the evaluation task would be:

$(1,000 \text{ frames} \times 2) \times 0.105 \text{ USD} / 1,000 \text{ frames} \times 3 \text{ evaluation methods} = 0.63 \text{ USD}$

### Evaluation Settings

Evaluation Criteria ⓘ \*

VMAF  PSNR  SSIM  VMAF-NEG

Evaluation Range ⓘ

Entire Video Duration  Custom Time Range

Custom frame range

—  seconds

Duration ranges from 5 to 10,800 seconds (3 hours), starting from the beginning by default.

1.4 When choosing a Storage location for the results, this path will store screenshots of the 10 frames with the biggest quality difference from the original video under each evaluation method for every comparison video. The screenshot images will not be deleted with the deletion of the evaluation task, please remember to clean up in time.

### Evaluation Result Storage Path

Storage Path ⓘ \*

Please select an evaluation result storage path. [Select Path](#)

Comparison screenshot files will be stored in this path.

## 2. View the evaluation results

After creating the evaluation task, a task record will be generated on the Video Quality Evaluation page. Once the evaluation task is successfully executed, you can click to view the Evaluation Result Report.

**Note:**

The retention period for evaluation tasks is 7 days. Evaluation records exceeding 7 days will be deleted, please download the evaluation report results in time;

If none of the comparison videos can generate evaluation results, the evaluation report will not be viewed.

The evaluation report contains the following content.

2.1 View the overall evaluation scores of comparison videos, support viewing screenshots and side-by-side comparison videos.



**Original Video Information**

Video Name: trailer.mp4

Video Duration: 00:00:52

Average Bitrate: 537.875 kbps

Resolution: 854 \* 480

**Comparison Video Information**

Number of Videos: 1

**Evaluation Information**

Evaluation Approach: VMAF, PSNR, SSIM

Evaluation Range: 00:00:00-00:00:52

**Overall Score** [Custom Split-Screen Comparison](#)

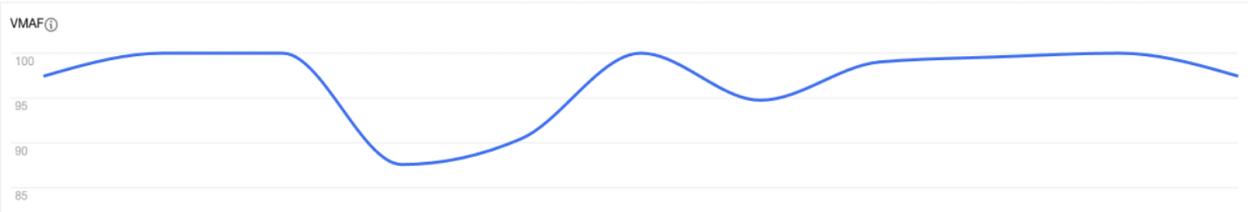
Video Name	Average Bitrate	Resolution	Evaluation Time	VMAF <sup>①</sup>	PSNR <sup>①</sup>	SSIM <sup>①</sup>	Operation
h264-mp4_transcode_254304.mp4	182.005 kbps	854 * 480	00:00:00-00:00:52	95.043	41.7707	0.9853	<a href="#">Screenshot Comparison</a> <a href="#">Split-Screen Comparison with t</a>

**Frame-by-Frame Score**

Frame-by-frame score curves will be drawn over time to illustrate the characteristics of score changes during the evaluation period.

Select Comparison Video: Select All

VMAF <sup>①</sup>



Click to view the screenshot to reveal the image of the frame with the greatest difference in picture quality during the transcoding of each comparison video, displaying the frame's time and its corresponding evaluation score.

**Evaluation Result** **PSNR**

PSNR Overall Score:41.7707

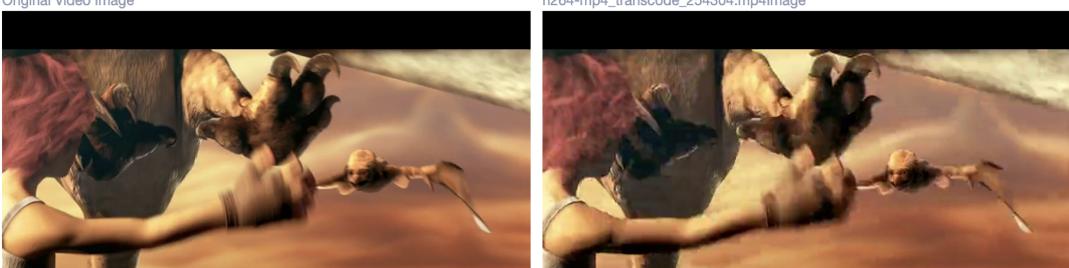
Image Comparison1 00:00:30(The number of frames725) PSNR 36.26  
Original Video Image h264-mp4\_transcode\_254304.mp4Image



Image Comparison2 00:00:30(The number of frames726) PSNR 35.44  
Original Video Image h264-mp4\_transcode\_254304.mp4Image

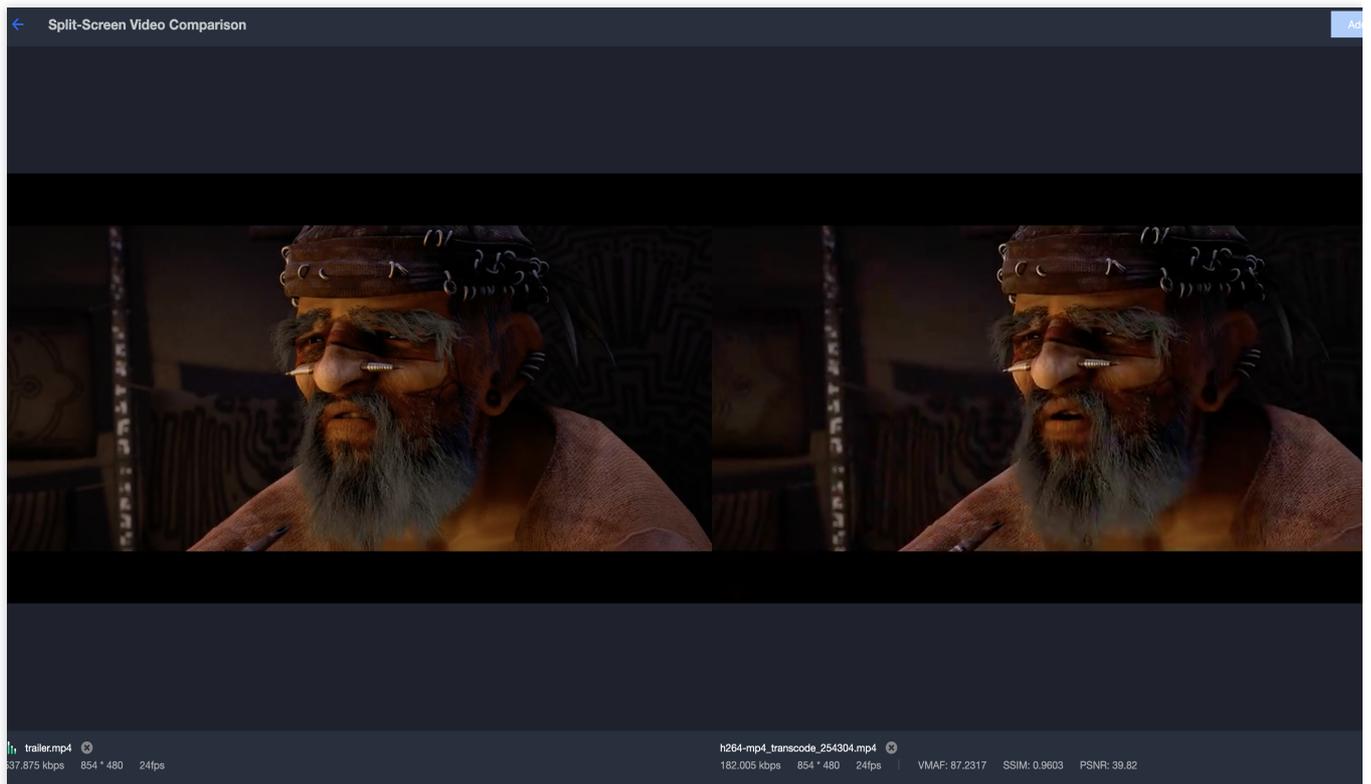


Image Comparison3 00:00:30(The number of frames727) PSNR 35  
Original Video Image h264-mp4\_transcode\_254304.mp4Image



The image displays a side-by-side comparison of three video frames. Each frame is split into two halves: the left half shows the 'Original Video Image' and the right half shows the 'h264-mp4\_transcode\_254304.mp4Image'. The frames depict a character with large, reddish-brown wings and a small flying insect against a sunset background. The PSNR scores for the three comparisons are 36.26, 35.44, and 35, respectively. On the left side of the interface, there is a sidebar with sections for 'Overall Score', 'Video Name', 'Frame-by-Frame', and 'VMAF'.

Click simultaneous video comparison to play multiple videos at the same time, supporting synchronous resizing of multiple videos.

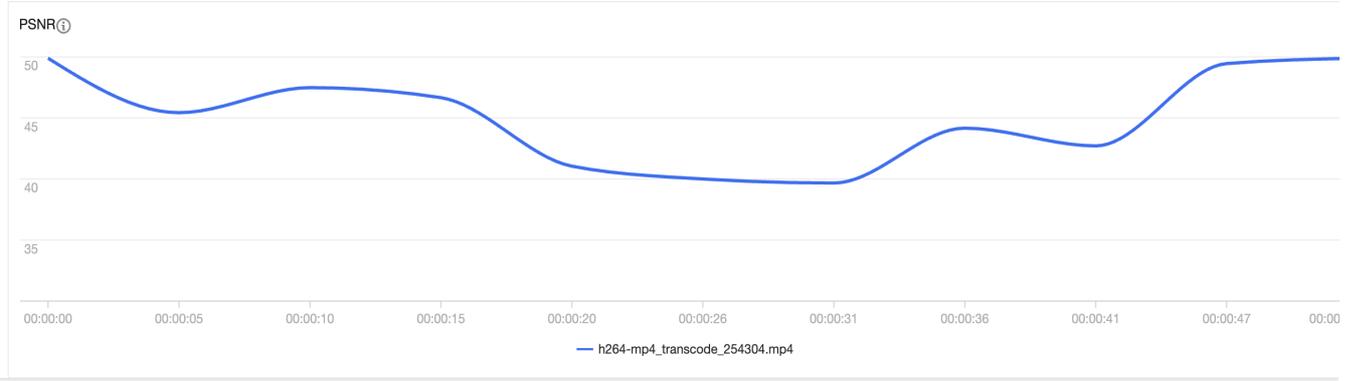
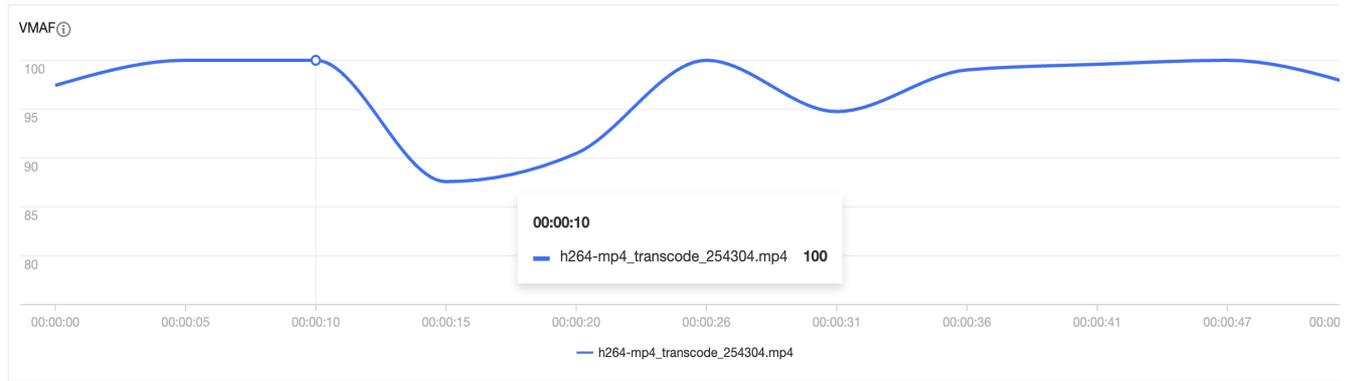


2.2 View the video evaluation graphs, supporting the comparison of videos through filtering and sorting.

### Frame-by-Frame Score

Frame-by-frame score curves will be drawn over time to illustrate the characteristics of score changes during the evaluation period.

Select Comparison Video



# BD-Rate Assessment

Last updated : 2024-10-28 15:56:00

The video evaluation feature currently supports video quality evaluation and BD-rate evaluation. You can create evaluation tasks on the console video evaluation page, compare video transcoding quality and transcoding template effects, and support the presentation of visualized data results. See [Billing Overview](#) for the pricing standards of related features.

## Use Case

### Transcoding Template Effect Evaluation

Media Processing Service transcoding templates consist of varying parameters, allowing for the selection of optimal transcoding parameters through BD-rate evaluation. Choose a source video and transcoding templates with different parameters to evaluate the BD-rate of the transcoding templates. Based on at least four transcoding sessions, compare the evaluation data to select the transcoding template that meets your needs. The evaluation results can generate a BD-rate score table and an evaluation score curve chart among different transcoding templates.

### Transcoding Evaluation

Video Quality Evaluation **BD-Rate Comparison Evaluation** Live Streaming Transcoding Quality Monitoring

#### BD-Rate Comparison Evaluation

Select the Media Processing Service template to evaluate the video transcoding quality differences at various bitrates with different templates.

[Create a BD-Rate Comparison Evaluation](#) [Operation Guide](#) [Billing Modes](#)

*(Note: The evaluation task list currently supports querying data from the last 7 days. The transcoding evaluation feature is currently in beta and available for a limited-time free trial.)*

Task ID	Status	Creation time	Completi...	Operation
No tasks on the list. <a href="#">Go to Create a BD-Rate Comparison Evaluation Task</a> .				

Total items: 0

10 / page

1 / 1 page

# Instructions

## 1. Create an evaluation task

Go to the Media Processing Service console's [video evaluation](#) page and click to **Create a BD-Rate Comparison Evaluation Task**.

### Select Video

Video Source:  Tencent Cloud storage  URL address  
To upload local video files, please select a bucket in COS and upload the file.

Video File \*

### Select template

Transcoding Template

Template name/ID	Operation
Click Select Template above to select transcoding templates. Up to 4 templates can be selected.	

### Evaluation Settings

Evaluation Criteria:  VMAF  PSNR  SSIM  VMAF-NEG

Evaluation Range:  Entire Video Duration  Custom Time Range  Custom frame range

Evaluation Method:  System Default  Specify Bitrate/Compare CRF  
The default evaluation will draw a BD-Rate curve based on the default CRF (video quality parameters) of the system. The default CRF values are (20, 25, 29, 34). If you need to specify CRF parameters or bitrate, choose the specified bitrate/CRF comparison.

More settings ▾

[+ Add File for Evaluation](#)

### Evaluation Result

#### Storage Path

Storage Path \*    
The transcoded video generated from the template will be stored in this path.

### Evaluation Results Indication

BD-Rate

Template name/ID	Template 1/100730	Template 2/100731
Template 1/100730	-	20.97%
Template 2/100731	-17.21%	-

**Overall bitrate increase/save percenta**

### VMAF

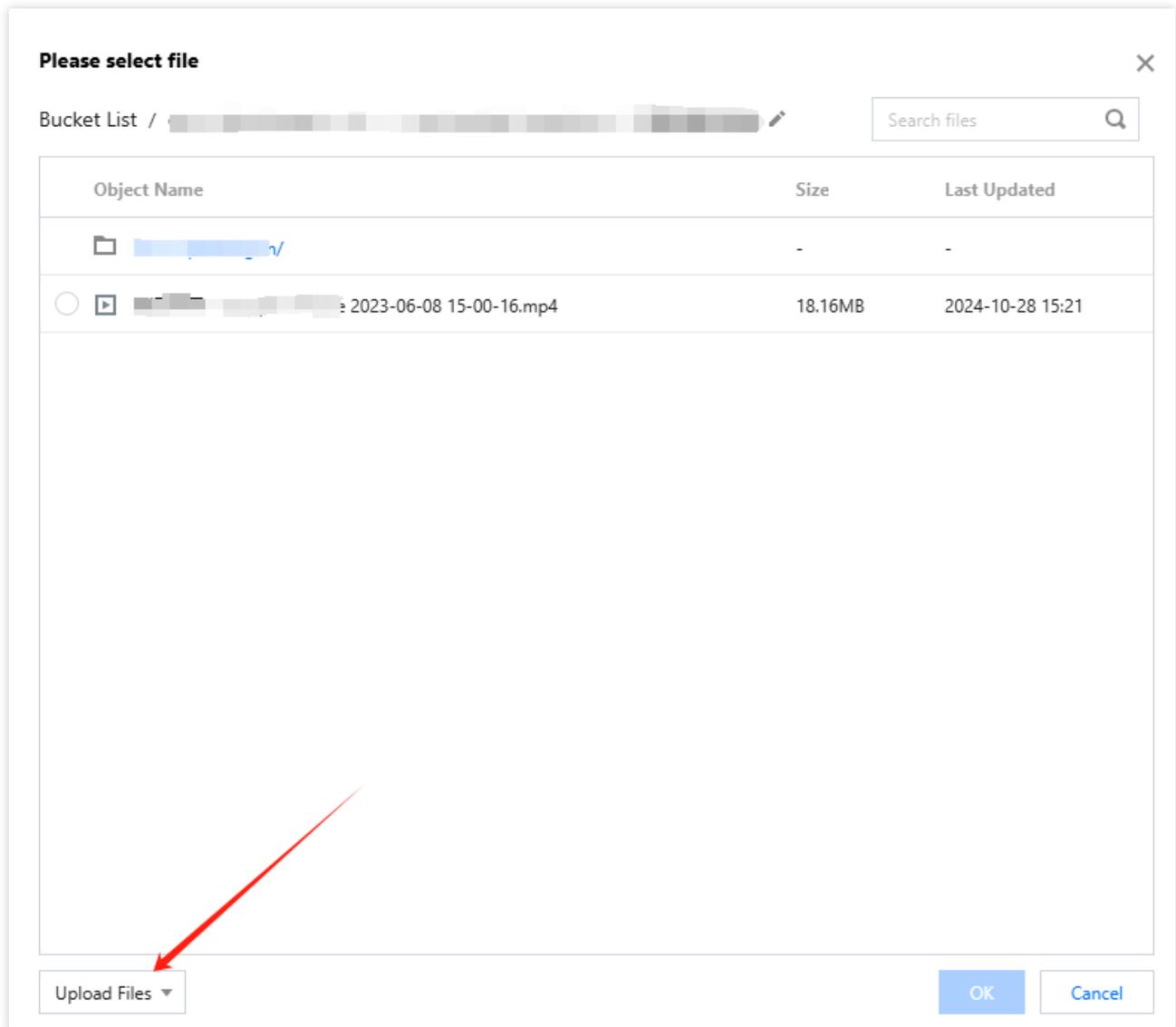
Specify evaluation standard

Specify CRF

— Video 1 — Video 2

Description:  
The curve represents the corresponding VMAF score (or PSNR, SSIM, VMAF-NEG) for the specified video quality parameter. The X-axis represents the bitrate required to achieve that quality score. This can help you measure which template setting has a bitrate advantage under equal video quality.

1.1 Select the original video, which will be used as the source video in the evaluation. It supports selecting video files from COS Storage and accessing videos via URL. If using a local video file, please upload it to COS and then select it through the COS method.

**Note:**

Uploading local files to COS Storage will incur related storage costs.

1.2 Select transcoding templates. Each chosen template will perform a single transcoding on the source video, and the results of the transcoding will be evaluated. Each BD-rate evaluation allows the selection of 2 to 4 transcoding templates.

Select template

Please select a transcoding template with the same frame rate as the source video, as inconsistency in frame rates will render the evaluation scores non-referential.

Transcoding Type

General transcoding template  TSC transcoding template

It can reduce the video bitrate and change the encoding standard, resolution, frame rate, and other parameters of source videos, so as to adapt to playback on different terminals and in different network environments.

You can also [create a template](#) and then [refresh](#) this list.

Template ...	Container ...	Video E...	Bitrate (Kb...	Resolution (px)	Frame Rat...	Audio Enc...	Templ... T	Operation
STD-1080P-100270	HLS	H.264	6000	Proportionally scaled * 2160 px	25 fps	AAC	Preset	<a href="#">View</a>
STD-720P-100270	HLS	H.264	3000	Proportionally scaled * 1440 px	25 fps	AAC	Preset	<a href="#">View</a>
STD-480P-100240	HLS	H.264	2500	Proportionally scaled * 1080 px	25 fps	AAC	Preset	<a href="#">View</a>

1.3 Select the evaluation criteria. You can choose one of the evaluation methods: PSNR, SSIM, VMAF, or VMAF-NEG.

1.4 Select evaluation parameters. The default evaluation parameters use video quality parameters (CRF = 18, 24, 29, 34), but you can also choose custom parameters bitrate or video quality parameters.

In a Custom Definition parameters scenario, you need to choose 4-8 parameters. During billing, each evaluation parameter's transcoding result will be calculated separately for evaluation frame count.

Example: With an original video of 1,000 frames, selecting 2 transcoding templates, using PSNR as the evaluation standard, and simultaneously choosing 5 bitrate Custom Definition parameters, the cost generated by the evaluation task is:

$$(1,000 \text{ frames} \times 2 \text{ templates}) \times 0.105 \text{ USD} / 1000 \text{ frames} \times 1 \text{ type of evaluation method} \times 5 \text{ evaluation parameters} = 1.05 \text{ USD}$$

### Evaluation Settings

Evaluation Criteria (i)
 VMAF
  PSNR
  SSIM
  VMAF-NEG

Evaluation Range (i)
 Entire Video Duration
  Custom Time Range
  Custom frame range

—  seconds

Duration ranges from 5 to 300 seconds (5 minutes), starting from the beginning by default.

Evaluation Method (i)
 System Default
  Specify Bitrate/Compare CRF

Specify Parameters
  Compare Evaluation Score Under the Specified Bitrate
  Compare Bitrate Under the Specified CRF (Video Quality Score)

Select Bitrate Parameter (Kbps)

Please select at least 4 transcoding bitrate parameters. The transcoding template will perform transcoding for each bitrate parameter and score according to the selected evaluation criteria.

1.5 In the evaluation process, it also supports adding files for evaluation. You can create a control group and put 4 to 8 videos generated from the same transcoding template into a control group. Each evaluation task supports no more than 4 control groups.

### Add File for Evaluation (i)

Control Group1
 
[Remove](#)

Files can be created through Cloud Object Storage (COS) and URL. If you need to upload local video files, select a bucket in COS and upload the file.

File Name	Operation
Click Select File above to select files. Only 4 to 8 files can be selected.	

Select at least 4 comparison videos.

[+ Add Control Group](#)

1.6 Choose the storage location for results. Each transcoding result video will be saved in this path, and these videos will not be deleted with the deletion of the evaluation task, please remember to clean up in time.

**Evaluation Result**  
**Storage Path**

Storage Path \*  [Select Path](#)

The transcoded video generated from the template will be stored in this path.

## 2. View the evaluation results

After creating the evaluation task, a task record will be generated on the Video Quality Evaluation Page. Once the evaluation task is successfully executed, you can click peek at the Evaluation Result Report in the task details.

### Note:

The retention period for evaluation tasks is 7 days. Evaluation records exceeding 7 days will be deleted, please download the evaluation report results in time;

If none of the comparison videos can generate evaluation results, the evaluation report will not be viewed.

# Terminal SDK

Last updated : 2024-11-20 14:59:40

## Overview

Media Processing Service (MPS) Top Speed Codec (TSC) terminal SDK can provide features like encoding compression, audio enhancement, and video super resolution on user clients (such as mobile phones, computers and tablets), improving the overall media quality and experience.

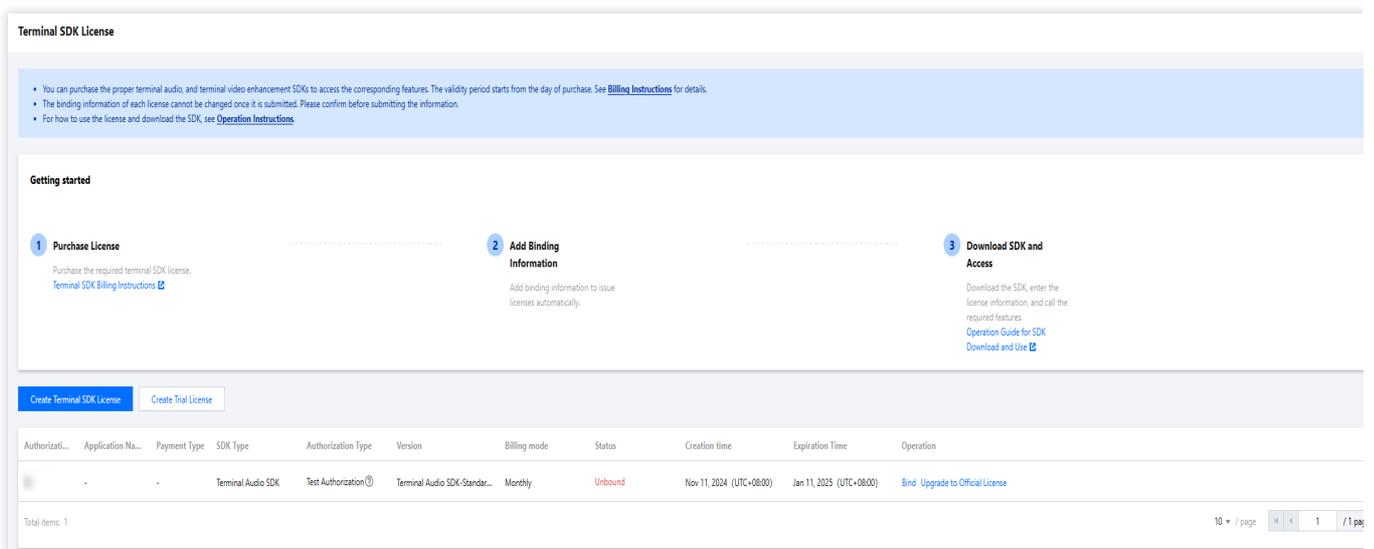
## Prerequisites

The prerequisites for purchasing or trying the MPS terminal SDK are as follows:

1. You must have [signed up for a Tencent Cloud account](#) and completed identity verification.
2. The account must have the permissions to make purchases on the MPS product page.

## Directions

Log in to the [Tencent Cloud MPS console](#) and go to the MPS product **Terminal SDK License** page.



## Applying for Trial Terminal SDK License

### Step 1: Self-applying for Trial SDK License

On the page, click on **Create Trial License**, select the SDK type and version needed for the trial, and continue to click **Create License** to complete the application.

#### Create Terminal SDK Trial License ✕

**i** Only 1 trial license can be created for each SDK version. The trial license is valid for 60 days. To continue using it, you must purchase an official license.

- Terminal Audio SDK - Standard Edition
- Terminal Audio SDK - Professional Edition
- Terminal Audio SDK - Ultimate Edition
- Terminal Enhancement SDK—Standard Edition
- Terminal Enhancement SDK - Professional Edition
- Terminal Enhancement SDK - Ultimate Edition

**Note:**

Each trial License is valid for 60 days. Within the validity period, you cannot re-apply for multiple SDK Licenses of the same type and version.

### Step 2: Binding Application Information

The trial SDK License you have applied for is inactive and will become active only after the application information binding is completed.

**Terminal SDK License**

- You can purchase the proper terminal audio, and terminal video enhancement SDKs to access the corresponding features. The validity period starts from the day of purchase. See [Billing Instructions](#) for details.
- The binding information of each license cannot be changed once it is submitted. Please confirm before submitting the information.
- For how to use the license and download the SDK, see [Operation Instructions](#).

**Getting started**

- 1 Purchase License**  
Purchase the required terminal SDK license.  
[Terminal SDK Billing Instructions](#)
- 2 Add Binding Information**  
Add binding information to issue licenses automatically.
- 3 Download SDK and Access**  
Download the SDK, enter the license information, and call the required features.  
[Operation Guide for SDK](#)  
[Download and Use](#)

[Create Terminal SDK License](#) [Create Trial License](#)

Authorizati...	Application No...	Payment Type	SDK Type	Authorization Type	Version	Billing mode	Status	Creation time	Expiration Time	Operation
	-	-	Terminal Audio SDK	Test Authorization	Terminal Audio SDK-Standar...	Monthly	Unbound	Nov 11, 2024 (UTC+08:00)	Jan 11, 2025 (UTC+08:00)	<a href="#">Bind</a> <a href="#">Upgrade to Official License</a>

Total items: 1

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Click **Bind** and fill in the corresponding application information to complete the binding process.

### Bind License ✕

The binding information for the trial license can be modified during the trial period, but the binding information for the official license cannot be modified once submitted.  
Upon completion of the binding, a corresponding issuance document will be generated. For details of the license usage documentation and the SDK download and usage methods, please refer to [Operating Instructions](#).

Application Name \*

For example, UGSV. It supports Chinese characters, English letters, digits, spaces, underscores, hyphens, and periods, up to 128 bytes.

Binding Information \*  Windows  MacOS  Android  IOS

Windows

MacOS

Android

IOS

You can enter only one line in each input box. Each line contains the identification information of an application, between 1–128 characters, and Chinese is not allowed.

Note:

With the trial validity period, you can modify the binding information indefinitely. Once the license is upgraded to an official paid License, the binding information cannot be changed at will. Please confirm the binding information before upgrading to the official License.

## Purchasing Terminal License

### Step 1: Selecting the Product to Be Purchased

On the page, click **Create Terminal SDK License** and you will be guided to the purchase page, where you can select the SDK License you need to purchase. Select the following in turn:

1. License Type: TSC - Terminal Audio SDK, TSC - Terminal Enhancement SDK.
2. Billing Mode: Annual or monthly purchase.
3. SDK Version.
4. Duration.
5. Number of Licenses (usually 1).

# Media Processing Service (MPS) [Back to intro page](#)

[Documentation](#) [Billing Modes](#)

Transcoding pack **Client SDK**

## Notes

**Instructions for use** Please choose the License and purchase method that suit your business needs.

- Effective date**
- You can purchase the proper terminal audio, and terminal video enhancement SDKs to access the corresponding features. The validity period starts from the day of purchase. See Billing Instructions for details.
  - The binding information of each license cannot be changed once it is submitted. Please confirm before submitting the information.

## Select resource packs

License Type

<p><b>TSC - Terminal Audio SDK</b></p> <ul style="list-style-type: none"> <li>Provides adaptive noise suppression, acoustic echo cancellation, automatic gain control, audio encoding, and other features.</li> <li>The specific features are subject to the detailed feature list of each edition.</li> </ul>	<p><b>TSC - Terminal Enhanced SDK</b></p> <ul style="list-style-type: none"> <li>Provides super resolution, enhancement, noise reduction, color enhancement, and other features.</li> <li>The specific features are subject to the detailed feature list of each edition.</li> </ul>
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## Options

Billing Mode

**Annual Purchase** Monthly Purchase

SDK Version

<p><b>Terminal Audio SDK - Standard Edition</b></p> <p>USD/year(s)</p> <ul style="list-style-type: none"> <li>-Adaptive noise suppression</li> <li>-Acoustic echo cancellation</li> <li>-Automatic gain control</li> </ul>	<p><b>Terminal Audio SDK - Professional Edition</b></p> <p>USD/year(s)</p> <ul style="list-style-type: none"> <li>-Adaptive noise suppression</li> <li>-Acoustic echo cancellation</li> <li>-Automatic gain control</li> <li>-Audio Encoding</li> <li>-Music scenarios</li> </ul>	<p><b>Terminal Audio SDK - Premium Edition</b></p> <p>USD/year(s)</p> <ul style="list-style-type: none"> <li>-Adaptive noise suppression</li> <li>-Acoustic echo cancellation</li> <li>-Automatic gain control</li> <li>-Audio Encoding</li> <li>-Music scenarios</li> <li>-AI codec</li> </ul>
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Duration

**1 year** 2 years 3 years

Number of Licenses

Please read and agree to the terms and conditions before purchase

Terms and conditions  I have read and agree to the [MPS Service Level Agreement](#).

Total cost USD **Purchase now**

## Step 2: Confirming Order Payment

After selecting the required SDK configuration, click **Purchase Now** to view the product information under this payment. After submitting the order, choose an appropriate payment method to complete the payment.

### Please confirm the following product information [Go Back to Modify Configuration](#)

#### Product List

##### MPS Client SDK

TSC - Client SDK: Top speed codec-Terminal A audio SDK - Standard Edition  
Unit Price: [redacted] USD/month  
Quantity: 1  
Payment Mode: Prepaid  
Term: 1month

[redacted] USD

#### Discounts and Vouchers

##### Promo voucher

Use promo voucher

No available Promo voucher

#### Check the Fees

MPS Client SDK x1 [redacted] USD

Upfront Payment: [redacted] USD

Tax: [redacted] USD ⓘ

**Total** [redacted] USD

[Submit Order](#)

### Step 3: Binding App Information

On the purchased License, fill in the App binding information. After confirmation, the service will take effect.

**Note:**

The binding information can only be filled in once. If there is a mistake, please contact Tencent Cloud to [submit a ticket](#) for modification.

### Bind License



The binding information for each license cannot be changed once submitted. Please confirm the license is unoccupied before saving its binding information. Upon completion of the binding, a corresponding issuance document will be generated. For details of the license usage documentation and the SDK download and usage methods, please refer to [Operating Instructions](#).

Application Name \*

For example, UGSV. It supports Chinese characters, English letters, digits, spaces, underscores, hyphens, and periods, up to 128 bytes.

Binding Information \*

- Windows  MacOS  Android  IOS

Windows

MacOS

Android

IOS

You can enter only one line in each input box. Each line contains the identification information of an application, between 1–128 characters, and Chinese is not allowed.

## Upgrading from Trial Edition to Official Edition

## Step 1: Upgrading to Official License

On the page, click **Upgrade to Official License** for the target trial License to upgrade and purchase the License.

**Terminal SDK License**

- You can purchase the proper terminal audio, and terminal video enhancement SDKs to access the corresponding features. The validity period starts from the day of purchase. See [Billing Instructions](#) for details.
- The binding information of each license cannot be changed once it is submitted. Please confirm before submitting the information.
- For how to use the license and download the SDK, see [Operation Instructions](#).

**Getting started**

- 1 Purchase License**  
Purchase the required terminal SDK license.  
[Terminal SDK Billing Instructions](#)
- 2 Add Binding Information**  
Add binding information to issue licenses automatically.
- 3 Download SDK and Access**  
Download the SDK, enter the license information, and call the required features.  
[Operation Guide for SDK](#)  
[Download and Use](#)

[Create Terminal SDK License](#) [Create Trial License](#)

Authorizati...	Application Na...	Payment Type	SDK Type	Authorization Type	Version	Billing mode	Status	Creation time	Expiration Time	Operation
			Terminal Audio SDK	Test Authorization	Terminal Audio SDK-Standar...	Monthly	Unbound	Nov 11, 2024 (UTC+08:00)	Jan 11, 2025 (UTC+08:00)	Bind <b>Upgrade to Official License</b>

Total items: 1

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### Note:

- After upgrading to Formal License, the binding information cannot be modified. Please check and confirm the binding information before purchasing.
- After the official License is purchased, the trial period will automatically end.

**Upgrade to Official License**

The trial license can be upgraded to an official license without replacing the SDK.

**Note:**

- After upgrading to the official license, the binding information cannot be modified. Please check and confirm the binding information before purchasing.
- After the official license is purchased, the trial period will automatically end.

I understand

I have read and agree to [Tencent Cloud MPS Billing Overview](#).

[Purchase Prepaid SDK](#) [Cancel](#)

## Step 2: Selecting the Billing Type and Duration

Click **Purchase Prepaid SDK**, then you can choose to purchase on a monthly or yearly basis. Click **Next** to enter the order confirmation page. After payment, the License will be upgraded to the official edition.

### Purchase Prepaid SDK

SDK version Terminal Audio SDK-Standard Edition

*\*If you need to switch to another version of the SDK, please go to the purchase page to buy a new SDK License.*

Payment Type

Purchase by Year

Purchase by Month

Duration

Monthly Subscription with Auto-Renewal

1 months

2 months

3 months

4 months

5 months

6 months

More

Next

Cancel

# Cloud Access Management Sample

Last updated : 2024-01-02 11:27:49

## Introduction

You can authorize users to view and use the specific resources in the Media Processing Service (MPS) console via the Cloud Access Management (CAM) policies. This document provides authorization examples to view and use the specific resources, which can help users understand how to use the specific CAM policies by using the MPS console.

## Examples

### Read and write full access(MPS)

You can use the policy named QcloudMPSFullAccess for users. This policy is designed to grant users the permissions to access all the resources in MPS.

The detailed steps are as follows:

Refer to [Authorization Management](#) for instructions on how to grant the preset policy QcloudMPSFullAccess to users.

### Access for MPS role

You can use the policy named QcloudAccessForMPSRole for users. This policy is designed to grant users the permissions to read the Object Storage (COS) bucket list, read and write bucket configurations and read or upload objects. It also includes the capability to transmit messages via the Message Queue (CMQ).

The detailed steps are as follows:

Refer to [Authorization Management](#) for instructions on how to grant the preset policy QcloudAccessForMPSRole to users.

### Access for MPS role in deliver to SCF

You can use the policy named QcloudAccessForMPSRoleInDeliverToSCF for users. This policy is designed for association for MPS QCSRole, used for temporary access to other cloud service resources by MPS.

The detailed steps are as follows:

Refer to [Authorization Management](#) for instructions on how to grant the preset policy QcloudAccessForMPSRoleInDeliverToSCF to users.