

Media Processing Service Integration Tutorials Product Documentation





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Integration Tutorials Media AI Integration Tutorial Smart Subtitle Access Tutorial

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Overview

The Smart Captions and Subtitles Function offers real-time voice recognition for video files and live streams, converting speech to subtitles in multiple languages. It's ideal for live broadcasts and international video transcription, with customizable hotwords and glossary libraries for improved accuracy.

Key features

Comprehensive Platform Support: Offers processing capabilities for on-demand files, live streams, and RTC streams. Live broadcast real-time simultaneous captioning supports steady and gradient modes, with a low barrier to integration and no need for modifications on the playback end.

High Accuracy: Utilizes large-scale models, and supports hotwords and glossary databases, achieving industryleading accuracy.

Rich Language Variety: Supports hundreds of languages, including various dialects. Capable of recognizing mixedlanguage speech, such as combinations of Chinese and English.

Customizable Styles: Enables embedding open subtitles into videos, with customizable subtitle styles (font, size, color, background, position, etc.).

Scenario 1: Processing Offline Files

Method 1: Initiating a Zero-Code Task from the Console

Initiating a Task Manually

Log in to the Media Processing Service (MPS) console and click **Create Task >** Create VOD Processing Task.

1. Specify an input file.

You can choose a video file from a Tencent Cloud Object Storage (COS) bucket or provide a video download URL.

The current subtitle generation and translation feature does not support using AWS S3 as an input file source.

2. Process the input file.

Select Create Orchestration and insert the "Smart Subtitle" node.

You can choose a preset template or use custom parameters. For a detailed template configuration guide, see Smart Subtitle Template and Custom Hotword Lexicon.

System preset templates are shown in the table below:

Template Name/ID	Template Capability
Generate_Chinese_Subtitle_For_Chinese_Video	Recognize the Chinese speech in the source video and generate a Chinese subtitle file (WebVTT format).
Generate_English_Subtitle_For_Chinese_Video	Recognize the Chinese speech in the source video, translate it into English, and generate an English subtitle file.
Generate_Chinese_And_English_Subtitle_For_Chinese_Video 122	Recognize the Chinese speech in the source video, translate it into English, and generate a Chinese-English bilingual subtitle file.
Generate_English_Subtitle_For_English_Video 200	Recognize the English speech in the source video and generate an English subtitle file.
Generate_Chinese_Subtitle_For_English_Video 211	Recognize the English speech in the source video, translate it into Chinese, and generate a Chinese subtitle file.
Generate_Chinese_And_English_Subtitle_For_English_Video 212	Recognize the English speech in the source video, translate it into Chinese, and generate an English-Chinese bilingual subtitle file.

3. Specify an output path.

Specify the storage path of the output file.

4. Initiate a task.

Click **Create** to initiate a task.

Automatically Triggering a Task Through the Orchestration (Optional)

If you want to upload a video file to the COS bucket and achieve automatic smart subtitles according to preset parameters, you can:

1. Enter **On-demand Orchestration** in the menu, click **Create VDD Orchestration**, select the smart subtitle node in task configuration, and configure parameters such as the bucket and directory to be triggered.

2. Go to the **On-demand Orchestration** list, find the new orchestration, and enable the switch at **Enable**.

Subsequently, any new video files added to the triggered directory will automatically initiate tasks according to the preset process and parameters of the orchestration, and the processed video files will be saved to the output path configured in the orchestration.

Note:

It takes 3-5 minutes for the orchestration to take effect after being enabled.

Method 2: API Call

Method 1

Call the ProcessMedia API and initiate a task by specifying the Template ID. Example:

```
{
    "InputInfo": {
        "Type": "URL",
        "UrlInputInfo": {
            "Url": "https://test-1234567.cos.ap-guangzhou.mygcloud.com/video/test.m
    },
    "SmartSubtitlesTask": {
        "Definition": 122 //122 is the ID of the preset Chinese source video-genera
    },
    "OutputStorage": {
        "CosOutputStorage": {
            "Bucket": "test-1234567",
            "Region": "ap-guangzhou"
        },
        "Type": "COS"
    },
    "OutputDir": "/output/",
    "Action": "ProcessMedia",
    "Version": "2019-06-12"
}
```

Method 2

Call the ProcessMedia API and initiate a task by specifying the Orchestration ID. Example:

```
{
    "InputInfo": {
        "Type": "COS",
        "CosInputInfo": {
            "Bucket": "facedetectioncos-125****11",
            "Region": "ap-guangzhou",
            "Object": "/video/123.mp4"
        }
    },
    "ScheduleId": 12345, //Replace it with a custom orchestration ID. 12345 is a sa
"Action": "ProcessMedia",
    "Version": "2019-06-12"
}
```

Note:

If there is a callback address set, see the ParseNotification document for response packets.

Subtitle Application to Videos (Optional Capability)

Call the ProcessMedia API, initiate a **transcoding task**, specify the vtt file path for the subtitle, and specify subtitle application styles through the SubtitleTemplate field.

Example:

```
{
    "MediaProcessTask": {
        "TranscodeTaskSet": [
            {
                "Definition": 100040, //Transcoding template ID. It should be repla
                "OverrideParameter": { //Overwriting parameters that are used for f
                    "SubtitleTemplate": { //Subtitle application configuration.
                         "Path": "https://test-1234567.cos.ap-nanjing.myqcloud.com/m
                         "StreamIndex": 2,
                        "FontType": "simkai.ttf",
                        "FontSize": "10px",
                         "FontColor": "OxFFFFFF",
                        "FontAlpha": 0.9
                    }
                }
            }
        1
    },
    "InputInfo": { //Input information.
        "Type": "URL",
        "UrlInputInfo": {
            "Url": "https://test-1234567.cos.ap-nanjing.myqcloud.com/mps_autotest/s
        }
```

```
},
"OutputStorage": { //Output bucket.
    "Type": "COS",
    "CosOutputStorage": {
        "Bucket": "test-1234567",
        "Region": "ap-nanjing"
      }
    },
"OutputDir": "/mps_autotest/output2/", //Output path.
"Action": "ProcessMedia",
"Version": "2019-06-12"
}
```

Querying Task Results

Via the Console

Navigate to the VOD Tasks in the console, where the list will display the tasks that have just been initiated.

When the subtask status is "Successful", clicking on View Result allows for a preview of the subtitle.

The generated VTT subtitle file can be found in Orchestration > COS Bucket > Output Bucket.

Sample Chinese-English subtitles:

Event Notification Callbacks

When initiating a media processing task with ProcessMedia, you can configure event callbacks through the TaskNotifyConfig parameter. Upon the completion of the task, the results will be communicated back to you via the configured callback information, which you can decipher using ParseNotification.

Querying Task Results by Calling an API

Call the DescribeTaskDetail API and fill in the task ID (for example, 24000022-WorkflowTaskb20a8exxxxxx1tt110253 or 24000022-ScheduleTask-774f101xxxxxx1tt110253) to query task results. Example:

Scenario 2: Live Streams

There are currently 2 solutions for using subtitles and translations in live streams: Enable the subtitle feature through the Cloud Streaming Services (CSS) console, or use MPS to call back text and embed it into live streams. It is recommended to enable the subtitle feature through the CSS console. The solution is introduced as follows:

Method 1: Enabling the Subtitle Feature in the CSS Console

1. Configure the live subtitling feature.

1.1 Enable CSS and MPS.

1.2 Log in to the CSS console, create a subtitle template, and bind the transcoding template.

2. Obtain subtitle streams.

When the transcoding stream (append the transcoding template name _transcoding template name bound with the subtitle template to the corresponding live stream's StreamName to generate a transcoding stream address) is obtained, subtitles will be displayed. For detailed rules of splicing addresses for obtaining streams, see Splicing Playback URLs.

Note:

Currently, there are 2 forms of subtitle display: real-time dynamic subtitles and delayed steady-state subtitles. For realtime dynamic subtitles, the subtitles in live broadcast will dynamically correct the content word by word based on the speech content, and the output subtitles change in real time. For delayed steady-state subtitles, the system will display the live broadcast with a delay according to the set time, but the viewing experience of the complete sentence subtitle mode is better.

Method 2: Calling Back Text through MPS

Currently, it is not supported to use the MPS console to initiate live stream smart subtitle tasks. You can initiate them through the API.

Below are usage examples. For detailed API documentation, see ProcessLiveStream. For the real-time callback package, see ParseLiveStreamProcessNotification.

Note:

Currently, using MPS to process live streams requires the use of the **Intelligent Identification** template. This is achieved using Automatic Speech Recognition or speech translation.

```
{
    "Url": "http://5000-wenzhen.liveplay.myqcloud.com/live/123.flv",
    "AiRecognitionTask": {
        "Definition": 10101 //10101 is the preset Chinese subtitle template ID, whi
    },
    "OutputStorage": {
        "CosOutputStorage": {
            "Bucket": "6c0f30dfvodgzp****0800-10****53",
            "Region": "ap-guangzhou-2"
```

}

```
},
    "Type": "COS"
},
"OutputDir": "/6c0f30dfvodgzp****0800/0d1409d3456551******652/",
"TaskNotifyConfig": {
    "NotifyType": "URL",
    "NotifyUrl": "http://****.qq.com/callback/qtatest/?token=****"
},
"Action": "ProcessLiveStream",
"Version": "2019-06-12"
```

LLM Summarize Tutorial

Last updated : 2025-04-23 16:38:42

Free Trial

Note:

The function of the MPS Demo is relatively simple, only for experiencing the basic effect, please use the API access to test the complete effect.

1. Open MPS.LIVE, enter the LLM Summarize experience page, select Offline Video (Offline File) or Live Streaming,

and click One-Click Processing.

2. Once the processing is complete, you can view the results.

API Integration

Initiating a Summary Task

Call the Media Processing Service (MPS) API, select AiAnalysisTask, set **Definition** to **22** (preset large language model (LLM) summarize template), and enter extended parameters in ExtendedParameter for specific capabilities. For details, see Extended Parameter Description below.

Example:

```
{
    "InputInfo": {
        "Type": "URL",
        "UrlInputInfo": {
            "Url": "https://facedetectioncos-1251132611.cos.ap-guangzhou.myqcloud.c
        }
    },
    "AiAnalysisTask": {
        "Definition": 22, //Preset LLM summarize template ID.
        "ExtendedParameter": "{\\"des\\":{\\"split\\":{\\"method\\":\\"llm\\",\\"mo
    },
    }
```

```
"OutputStorage": {
    "CosOutputStorage": {
        "Bucket": "test-mps-123456789",
        "Region": "ap-guangzhou-2"
    },
    "Type": "COS"
    },
    "OutputDir": "/output/",
    "TaskNotifyConfig": {
        "NotifyType": "URL",
        "NotifyUrl": "http://qq.com/callback/qtatest/?token=xxxxxx"
    },
    "Action": "ProcessMedia",
    "Version": "2019-06-12"
}
```

API Explorer Quick Verification

You can perform quick verification through API Explorer. After filling in relevant parameter information on the page, you can initiate an online API call.

Extended Parameter Description

ExtendedParameter is used to personalize the summary task, which can be left unfilled, combined with the default effect, and used on-demand for directions that need to be improved.

Note:

API Explorer will automatically convert the format. You only need to enter the corresponding ExtendedParameter in JSON format without converting it to a string. If calling the API directly, you need to escape the JSON string. For the complete list of ExtendedParameter's optional parameters and their descriptions, refer to the following table:

```
{
   "des": {
    "split": {
        "method": "llm",
        "model": "deepseek-v3",
        "max_split_time_sec": 100,
        "extend_prompt": "This video is a medical scenario video, which is segmen
    },
    "need_ocr": true,
    "ocr_type": "ppt",
    "only_segment": 0,
    "text_requirement": "summary is within 40 characters",
    "dslang": "zh"
    }
}
```



Parameter	Required	Туре	Description
split.method	No	string	Segmentation Method: Ilm indicates Large Language Model-based segmentation, nlp indicates traditional NLP-based segmentation. The default value is IIm .
split.model	No	string	Segmentation IIm: Available options include Hunyuan, DeepSeek-V3, DeepSeek-R1. The default value is DeepSeek-V3 .
split.max_split_time_sec	No	int	Forces the maximum segmentation time in seconds to be specified. It is recommended to use it only if necessary, it may affect the segmentation effect. The default value is 3600.
split.extend_prompt	No	string	Requirements for segmentation task prompts. For example: "This instructional video is segmented by knowledge points". It is recommended to initially leave blank for testing and supplement prompts only when results fall short of expectations.
need_ocr	No	bool	Whether to use Optical Character Recognition (OCR) to assist segmentation, true means enabled. The default value is false . If disabled, the system only recognizes the video's speech content to assist in video segmentation; if enabled, it also recognizes the text content on the video image to assist in video segmentation.
ocr_type	No	string	OCR auxiliary type : ppt: Processes on-screen content as PowerPoint slides and segments videos based on slide transitions. other: Applies alternative segmentation methods. The default value is ppt .
only_segment	No	int	Whether to only segment without generating a summary. The default value is 0.1: Only segment without generating a summary.0: Segment and generate a summary.
text_requirement	No	string	Requirements for generating a summary. For example, the character limit is "summary is within 40 characters".
dstlang	No	string	Title and summary language. The default value is "zh". "zh": Chinese.



"en": English.

Querying Task Results

Task callbacks: When initiating an MPS task using ProcessMedia, you can set callback information through the TaskNotifyConfig parameter. After the task is completed, the task results will be called back through the configured callback information. You can parse the event notification results through ParseNotification. Use the TaskId returned by ProcessMedia to call the DescribeTaskDetail API to query the task processing results. Parse WorkflowTask > AiAnalysisResultSet > DescriptionTask > Output > DescriptionSet > MediaAiAnalysisDescriptionItem.

Description corresponds to the entire video summary, and Paragraphs corresponds to the intelligent segmentation results of the entire video and the summary of each segment.

Intelligent Highlights Tutorial

Last updated : 2024-11-29 15:22:31

Overview

The Intelligent Highlights feature uses intelligent algorithms to automatically capture and generate highlights in a video, providing users with quick review and sharing.



background music, etc.



Sports highlights: Goal moments



Game video highlights: First blood, pentakill, clutch escape

Presetting Template

Media Processing Service (MPS) offers an Intelligent Highlights preset template (Template ID: 26). You can initiate Intelligent Highlights tasks based on this template. For detailed steps, please refer to the section below Initiating Intelligent Highlights Task.

Media Processing Service	Intelligent Analysis Template					
B Overview	Create Intelligent Analysis Template					Enter the template name/ID to sear
Create Task Task	Template name/ID	Analysis Items	Creation time	Update Time	Template Type T	Operation
Template and Orchestration	Presetting-Template28 28		Sep 10, 2024 15:41:13 (UTC+08:00)	Sep 11, 2024 15:35:45 (UTC+08:00)	Preset	View Copy Ter
Templates Audio/Video Torono dire	Presetting-Template27 27	Video segmentation	Oct 29, 2024 10:09:28 (UTC+08:00)	Oct 29, 2024 10:27:11 (UTC+08:00)	Preset	View CopyTer
Audio/Video Enhancement	Presetting-Template26 26	Highlights	Jul 04, 2024 18:11:14 (UTC+08:00)	Jul 05, 2024 10:11:36 (UTC+08:00)	Preset	View CopyTer
 Intelligent Auditing 	Presetting-Template24 24		Dec 07, 2023 10:06:55 (UTC+08:00)	Oct 14, 2024 10:43:10 (UTC+08:00)	Preset	View Copy Ter
 Intelligent Identification 	Presetting-Template22 22		Dec 06, 2023 20:24:23 (UTC+08:00)	Dec 07, 2023 10:31:12 (UTC+08:00)	Preset	View Copy Ter
Intelligent Analysis	Presetting Template20 20	Intelligent categorization, Intelligent video tagging, Intelligent cover generation, Tagging video frames	Jan 01, 2017 00:00:00 (UTC+08:00)	Jan 18, 2021 11:20:44 (UTC+08:00)	Preset	View Copy Ter
Media Quality Inspection Watermark	Presetting Template 10 10	Intelligent categorization, Intelligent video tagging, Intelligent cover generation	Jan 01, 2017 00:00:00 (UTC+08:00)	Jan 18, 2021 11:20:44 (UTC+08:00)	Preset	View Copy Ter
Screenshot	Total items: 7					10 * / page H 4 1 /1 p

Initiating Intelligent Highlights Tasks

Scenario One: Processing Offline Video Files

Method 1: API Integration

1. Quick Verification using API Explorer

First, please go to the MPS console to activate the service and confirm COS Authorization is completed. Then, navigate to the API Explorer online debugging page, select ProcessMedia interface, and fill in input/output paths, and template ID. Set AiAnalysisTask **Definition** to **26** (Presetting template for intelligent highlights), and use **ExtendedParameter** for specific functionalities. Details on extended parameters are provided in the section below Extended Parameters.

Note:

API explorer will automatically convert, so you can directly fill in the corresponding json for ExtendedParameter without converting it into a string. However, if you directly call the API, you need to escape the JSON string. ExtendedParameter example:

{"hht":{"top_clip":10, "force_cls":5003, "need_vad":1, "threshold":0.9, "merge_tim

For the meaning of the parameters, please refer to the following section Extended Parameter description. To ensure the processing effect, it is recommended that you contact us to confirm the specific configuration offline.



2. Initiating via API

The above explained how to use the API explorer to call and debug the interface online. You can also directly initiate a POST request to Tencent Cloud. API request domain: mps.tencentcloudapi.com. While initiating a POST request, the definition is the preset intelligent highlight template ID (26). Below is a reference example for the request:

Note:

When directly calling the API, you need to escape the JSON string when inputting the ExtendedParameter parameter.

```
{
    "InputInfo": {
        "Type": "URL",
        "UrlInputInfo": {
            "Url": "https://mg-aidata-1258344699.cos-internal.ap-guangzhou.tencentc
        }
    },
    "OutputStorage": {
        "Type": "COS",
    }
}
```

```
"CosOutputStorage": {
    "Bucket": "mg-aidata-1258344699",
    "Region": "ap-guangzhou"
    }
},
"OutputDir": "/test_data/",
"AiAnalysisTask": {
    "Definition": 26,
    "ExtendedParameter": "{\\"hht\\":{\\"top_clip\\":10, \\"force_cls\\":5003,
}
}
```

3. Querying Task Results

Task callback: When using ProcessMedia to initiate an MPS task, you can set callback information through the TaskNotifyConfig parameter. Once the task is processed, the task result will be called back through the configured callback information. You can parse the event notification results through ParseNotification. Query via the DescribeTaskDetail API:

For tasks started with the API and a template as described in **Integration Method 1** above, use the TaskId from ProcessMedia (for example: 24000022-WorkflowTask-b20a8exxxxxx1tt110253) to parse

AiAnalysisResultSet in WorkflowTask .

For tasks started via ProcessMedia without a template but with a ScheduleId , the returned TaskId will include "ScheduleTask" (e.g. 24000022-ScheduleTask-774f101xxxxxx1tt110253). In this scenario, use the TaskId to parse ActivityResultSet in ScheduleTask .

For tasks initiated from the console, as described in **Integration Method 2** below, go to Tasks -> VOD for the task ID and results. You can also parse the ActivityResultSet in ScheduleTask in the DescribeTaskDetail API to obtain the task results.

Console query task: Enter the console VOD Processing Tasks, the newly initiated tasks will be displayed in the Task List.

Media Processing Service	VOD Process	sing Tasks								
Cverview										
 Create Task 	 This page 	ge only shows tasks in the past se	iven days							
E Tasks ^	Create task								Enter task ID. Separate i	nultiple IDs with ;
• VOD	Task ID			Status T	Task type 🝸	Creation time ↓		End time \$		Operation
• Live	- 26	abade	\2E#02	Completed	Intelligent Apolysia	New 15, 0004 11/50/01 // ITC / 0	8-00)	New 15, 0004 11-5	1.05 (1170 - 08-00)	Hide details Restart End
Template and Orchestration	* 20	-ebcub.	551201	Completed	intelligent Artalysis	100/15, 2024 11.52,21 (010+0	8.00)	1407 15, 2024 11.54	1.25 (010+08.00)	Play source video
🕞 Templates 🛛 👻	Subtask No.	Subtask status T	Subtask type T	Template Type 🔻	Start time \$	End time \$	Output			Operation
S Orchestrations *	1	Successful	Intelligent Analysis	Intelligent Analysis	Nov 15, 2024 11:52:21 (UTC	Nov 15, 2024 11:53:37 (UTC				View Details View Down
Resource Usage										
O Usage Statistics	Total items: 1								10 v / p	age H H 1 /1 page
Resource Packs										
More Services										
More services *										
General Settings *										
Terminal SDK ·										

When the subtask status is "Success", you can go to **COS Bucket > Output Bucket** to find your output directory, and the files starting with <a href="httl://www.httl:/httl://www.httl:///www.httl:///www.httl://www.httl://www.httl://www.httl:///www.httl://www.httl://www.httl://www.httl://www.httl://www.httl://www.httl://www.httl://www.httl:///www.httl://www.httl://wwww.httl://www.httl://www.httl:///wwww.httl:///www.ht

Media Processing Service	COS Bucket			
Overview	Source buckets Output bucket			
Oreate Task	Output bucket / yu			
🖹 Tasks 🛛 👻	Upload New folder Refresh			
Template and Orchestration				
🕼 Templates 🗸 👻	File name \$	Size \$	Modification Time \$	Operation
 Orchestrations ^ VOD 	htt-02411151153B1642745335-0.mp4	19.73 MB	2024-11-15 11:53:27	Preview Download
Orchestration • Live Orchestration	htt-02411151153-	128.87 KB	2024-11-15 11:53:36	Preview Download
COS Bucket	Total Iterus: 2		100 ¥ / page H 4 1	/ 1 page

Method 2: Console Task Initiation (Zero-Code Automatic Generation)

Note:

Initiating a task from the console requires a preset template (preset intelligent highlights parameters). Due to some special parameters in the highlights that cannot be configured in the template, it may affect the effect of the Intelligent Highlights. Therefore, it is recommended to use the API integration.

1. Creating a Task

1.1. Go to MPS console and then click Creating a Task > Quick Create a VOD Processing Task.

Media Processing Service	Create task
B Overview	View 1 Address Costs Table on the Costs 100 Day to be the Assess for white provide the statistics and the sector based on the
⊖ Create Task	Local Variaty Verter Jack on the Verticer Section of the plant interest of data processing lines have a strateging segret and or intering
🖻 Tasks 🔹 👻	Process VOD Files Process Live Streams
Template and Orchestration	Supports processing of Files stored in Tencom Cloud Object Storage (COS) or AMO S3.
₽ Templates *	The processing feature includes law considered audio Video enhancement, intelligent audiors
S Orchestrations ^	
 VOD Orchestration 	
Live Orchestration	
COS Bucket	Create K00 Processing Test
Resource Usage	
🕐 Usage Statistics	Metbod Auto-Trigger Task Contribution and configure the trigger backet. After the ortherstration is enabled, the processing task will be triggered automatically when you upload a new file to the backet. This feature is unlable for back has contractly processing task will be triggered automatically when you upload a new file to the backet. This feature is unlable for back has contractly processing task will be triggered automatically when you upload a new file to the backet. This feature is unlable for back has contractly processing task will be triggered automatically when you upload a new file to the backet. This feature is unlable for back has contractly processing task will be triggered automatically when you upload a new file to the backet. This feature is unlable for backet.
🖫 Resource Packs	Go to configuration
More Services	
	New AP Processing I lobies a task by allog the AR.
General Settings *	
Terminal SDK -	Af Documentains 2

1.2. First, specify the input video file. Currently, the Horizontal-to-Vertical Video Transformation feature supports two types of input sources: Tencent Cloud Object Storage (COS) and URL download link. AWS S3 is not supported.
1.3. Then, add Intelligent Analysis at the "Process Input Files" step.

Create VOD	Processing Task	
1 Specify Inp	ut File	
Input File Source	Tencent Cloud Object Storage (COS) URL AWS S3	
Select Input File *	Select files from COS.	Select
2 Process Inp	ut Files	
Create Orchestrat	on Select Existing Orchestration Through the orchestration, MPS fe	ature nodes can be combined, such as enhancing the video before transcoding to form an automatic processing flow.
Enable event notificat 3 Specify Out Output Save Path *	ut	Select
	' 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.
Advanced Settings		
Associate Resource	Select associated resources. After the resource is associated, the costs for this task can be allocated based on	the tags bound to the resources. To add or modify resources, please go to Cost Allocation Management 🗳.
Create		

1.4. In the pop-up Intelligent Analysis Settings window, select the **Intelligent Highlights Preset Template (Template ID:26)**.

Select template						×
O Intelligent Analysis Template						
You can also create a template	and then refresh this list.					
Template name/ID	Analysis Items	Creation time	Update Time	Template Type ▼	Operation	
Presetting-Template28		Sep 10, 2024 15:41:13 (UTC+08:00)	Sep 11, 2024 15:35:45 (UTC+08:00)	Preset	View	
O Presetting-Template27	Video segmentation	Oct 29, 2024 10:09:28 (UTC+08:00)	Oct 29, 2024 10:27:11 (UTC+08:00)	Preset	View	
Presetting-Template26	Highlights	Jul 04, 2024 18:11:14 (UTC+08:00)	Jul 05, 2024 10:11:36 (UTC+08:00)	Preset	View	
Presetting-Template24		Dec 07, 2023 10:06:55 (UTC+08:00)	Oct 14, 2024 10:43:10 (UTC+08:00)	Preset	View	
Presetting-Template22		Dec 06, 2023 20:24:23 (UTC+08:00)	Dec 07, 2023 10:31:12 (UTC+08:00)	Preset	View	
Presetting Template20	Intelligent categorization、	Jan 01, 2017 00:00:00 (UTC+08:00)	Jan 18, 2021 11:20:44 (UTC+08:00)	Preset	View	
Presetting Template10	Intelligent categorization、	Jan 01, 2017 00:00:00 (UTC+08:00)	Jan 18, 2021 11:20:44 (UTC+08:00)	Preset	View	
Total items: 7			10 👻	/ page 🛛 🖌 🔺 🚺	/ 1 page 🕨	
		Confirm	Cancel			

1.5. Finally, specify the output video save path, and click **Create** to initiate the task.

← c	Create VO	D Processing Task
1	Specify II	ıput File
Input I	File Source	Tencent Cloud Object Storage (COS) URL AWS S3
Select	Input File *	Select
2	Process I	nput Files
Cr	reate Orchest	ration Select Existing Orchestration Through the orchestration, MPS feature nodes can be combined, such as enhancing the video before transcoding to form an automatic processing flow.
		Input
Enable	e event notific	cations ()
3	Specity 0	
Outpu	it Save Path *	Select
		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.
Adva	ncod	
Setti	ngs	
Associ	iate Resource	Select associated resources.
		After the resource is associated, the costs for this task can be allocated based on the tags bound to the resources. To add or modify resources, please go to Cost Allocation Management 🗹.
Cn	reate	

2. Querying Task Results

Refer to the above text 3. Querying Task Results.

3. Automatically Triggering Tasks (Optional)

If you want to upload a video file to the COS bucket and achieve automatic Smart Erase according to preset parameters, you can:

3.1. Click **Save the Orchestration** when creating the task, and configure the Trigger Bucket, Trigger Directory, and other parameters in the pop-up window.

🗞 Tencent Cloud	Overview Products * Cloud Application F	Save Orchestration		×	12 Ticket v	Billing Center * E	English 🔻
Media Processing Service	← Create VOD Processing Task	C Referentier VOD C					
		new file to the trig	rorestration is saved, you need to enter the auto-mgger pain. Find VOD orchestration in the menu and enable it. When you update a ger bucket, the processing task will be triggered automatically.				
	1 Specify Input File	Trigger turo	AMR Tensort Claud COC				
	Input File Source O Tencent Cloud Object	nigger type					
· VOD	Select Input File • https://vivien-12563424	Orchestration name •	Orchestration1				
	2 Process Input Files	Trigger bucket	Tokyo v yr. 37 v				
	Create Orchestration Select Existin	• Trigger directory	/input/				
			Starts and ends with "/". If you leave this empty, the orchestration will be applied to all directories of the bucket.				
	input	Output bucket •	yu 37 •				
Resource Usage		Output directory	/output/				
			Must start and end with a slash (/). If you do not specify this, the output directory will be the same as the trigger directory.				
		Actions *				Save the	Orchestratio
	Enable event notifications ()		D Input				
	3 Specify Output Path						
	Output Save Path * [ap-tokyo] yunatest-1. To specify the output pa						
		Enable event notifications					
	Create	Off-peak transcoding					
			tate time transcoding only supports the configuration of general video transcoding and audio/video TSC transcoding nodes. More idle capabilities will be available in the future.	time			
-			Save				

3.2. Then, go to the **VOD Orchestration List**, find the newly created orchestration, and enable it by clicking the **Enable** button. As for the subsequent new video files in the Trigger Directory, tasks will be automatically triggered according to the preset process and parameters in the orchestration, and the processed video files will be saved to the output path configured by the orchestration.

Note:

It takes 3-5 minutes to take effect after the orchestration is successfully enabled.

Media Processing Service	VOD Orchestration Through the	orchestration, MPS feature nodes can be co	ombined, such as enhancing the video before tran	scoding to form an automatic processing flow.			
E Overview	Create a VOD orchestration and e	enable it. Uploading a new file in the associa	ted bucket will automatically initiate the processin	ng task.			
③ Create Task							
Tasks *	Create VOD Orchestration						Enter an orchestrati
Template and Orchestration	Orchestration name/ID	Orchestration type	Trigger bucket	Trigger directory	Creation time	Enable T	Operation
Templates *	ConvMp4					-	
S Orchestrations ^	10101	Preset		-	Aug 04, 2023 03:31:24 (UTC+08:00)		View Details Edit Delete
 VOD Orchestration 	ConvHls 10100	Preset			Aug 04, 2023 03:31:24 (UTC+08:00)		View Details Edit Delete
Live Orchestration COS Bucket	Orchestration1 39279	Custom	ap-tokyo	/input/	Nov 15, 2024 11:52:15 (UTC+08:00)		View Details Edit Delete

Scenario Two: Processing Live Streams

1. Initiating Requests

Initiating Requests via API Explorer

To initiate a live stream processing task by calling the API, you can refer to the Initiate Processing on Live Streams. You can click API Explorer Debugging in the file to enter the page, and fill in the relevant parameter information to initiate an online call.

The OutputStorage can be filled in by referring to the offline video scene processing above. An ExtendedParameter example is as follows, and the specific parameter meaning can be found in the Extended Parameters.

{"hht":{"top_clip":10, "force_cls":5003, "need_vad":1, "res_save_type":1}}



Initiating via API

A POST request is initiated directly to Tencent Cloud, and the definition is the ID of the created video analysis template. Below is a request reference example:

```
{
    "Url": "http://mps-pull.test.org/live/test.flv",
    "TaskNotifyConfig": {
        "NotifyType": "URL",
        "NotifyUrl": "http://test.cloud.com/callback"
```

```
},
"OutputStorage": {
    "Type": "COS",
    "CosOutputStorage": {
        "Bucket": "mg-aidata-1258344699",
        "Region": "ap-guangzhou"
     }
},
"OutputDir": "/output/",
"AiAnalysisTask": {
        "Definition": 26,
        "ExtendedParameter": "{\\"hht\\":{\\"top_clip\\":10, \\"force_cls\\":5003,
     }
}
```

2. Receiving Callbacks

Refer to Parse Live Stream Processing Results to parse AiAnalysisResultInfo fields.

3. Task Termination Protocol

Refer to Task Management Documentation to manage the initiated tasks.

Extended Parameter Description

Parameter	Required	Туре	Description
force_cls	No	int	Specify the highlights category: 5003: Variety/TV Series 4001: Football 4002: Basketball 1001: Honor of Kings 100101: Honor of Kings Competition 1003: League of Legends
need_vad	No	int	VAD is used to identify the end of a sentence in video. VAD extension allows complete video speech, enabled by default.1: Use VAD0: Do not use
threshold	No	float	Confidence threshold. The clips below the threshold are filtered out, and each type of highlights has default threshold settings. Remarks: You are advised not to set this parameter for the first time.
res_save_type	No	int	Whether to save the results, which are saved by default.

			1: Save results 0: Output the time period only
output_pattern	No	string	Output video naming format. {} indicates placeholder. {year}-{month}-{day}-{hour}-{minute}-{second}_{start_dts}-{end_dts}- {timestamp}-{session}.mp4 Default output format: hht-{year}{month}{day}{hour}{minute}-{session}-{timestamp}- index.mp4
image_pattern	No	string	image-{start_dts}.jpg The parameters that can be used as placeholders are the same as above. Default output format: hht-{year}{month}{day}{hour}{minute}-{session}-{timestamp}-index.jpg
merge_type	No	int	 Note: Only available in offline scenarios. Do not merge for the default value 5003, and merge in other scenarios. Whether to merge the results into one video: 1: Merge (top_clip parameter does not take effect) 0: Do not merge (merge_time parameter does not take effect)
merge_time	No	int	Note: Only available in offline scenarios. The default value 5003 is the actual output and the time shall not be longer than one hour in other scenarios. Specify the video output length when merging into one video.

Smart Erase Tutorial

Last updated : 2025-06-09 09:54:25

Overview

Smart erase function can blur, pixelate, or seamlessly process elements like logos, subtitles, and sensitive info like faces and vehicle license plates in videos, aiding content sharing. It's used in drama, short videos, Vlogs, and international e-commerce.

Key features

Automatically: Capable of automatically recognizing and removing over a dozen common logos, watermarks, subtitles, and sensitive info with effects like blurring and seamless removal.

High Customizability: It allows customization of model parameters for specific video scenarios, improving removal accuracy and making the final imagery appear more natural.

Integration Method 1: Integrating Through API

Call the Media Processing Service (MPS) API, select **AiAnalysisTask**, set **Definition** to **24** (preset smart erase template), and enter extended parameters in **ExtendedParameter** for specific capabilities. For details, see Specifying an Erasure Scenario below.

Note:

If you need to enable the smart erase feature for a custom intelligent analysis template, you can contact us and provide the **template ID**, and Tencent Cloud MPS developers will configure and enable the smart erase feature for you.

1. API Explorer Quick Verification

You can perform quick verification through API Explorer. After filling in relevant parameter information on the page, you can initiate an online API call.



Note:

If API Explorer is used, fill in the corresponding JSON content for ExtendedParameter. API Explorer will automatically convert it to a string.

Parameter example for API Explorer:

Parameters for directly calling an API:

{\\"delogo\\":{\\"cluster_id\\":\\"gpu_zhiyan\\",\\"CustomerAppId\\":\\"subtitle_er

2. ExtendedParameter: Common Parameters (For Specifying Erasure Scenarios)

The following elaborates on how the **ExtendedParameter** parameter passing can specify different erasure scenarios. Note:

Currently, each request **can only select one scenario capability and does not support multiple selections**. If you need to use a combination of multiple capabilities, contact us for evaluation and support.

Scenario 1: Watermark Removal

If **ExtendedParameter** is not specified, the watermark removal scenario is used by default.

Currently, we support the recognition and removal of over 10 types of watermarks. For watermarks not within our supported range, we also offer customized training services, however, this will incur additional model training fees.

Scenario 2: Subtitle Removal + Voice Subtitle & Translation + Text To Speech (TTS) & Replacement

Description

Original subtitle removal, subtitle & voice translation, and multilingual subtitle & voice replacement can be accomplished in one go in this scenario, facilitating video dissemination overseas. It is widely applicable to short drama platforms, short video platforms, cross-border e-commerce, and independent media studios. By using this scenario capability, the input video will be processed in the following steps sequentially:

- 1. Recognize and remove the subtitles in the original video image;
- 2. Recognize the audio in the original video, generate subtitle files, translate the subtitles, and then:
- 2.1 Render the translated subtitles to the original video image;
- 2.2 Use TTS to replace the original video's audio track.

3. Generate a new video.

Note:

This scenario is a combination of multiple features. If you only need to use a specific feature, refer to other scenarios below.

Parameter



```
// Target language: English
{\\"delogo\\":{\\"cluster_id\\":\\"gpu_pp\\",\\"CustomerAppId\\":\\"audio_subtitle_
/*
Note: translate_dst_language is used to specify the target language. If it is left
Valid values: en: English; zh: Chinese.
*/
```

Effect Example

Left: original Chinese short video; Right: processed output video with English subtitles and English dubbing.

Scenario 3: Specified Area Erasure

Description

The area specified by parameters is erased and a new video is generated.

Parameter

```
{\\"delogo\\":{\\"custom_objs\\":{\\"type\\":0,\\"time_objs\\":[{\\"objs\\":[{\\"ty
// Note: custom_objs is used to specify the area to be erased, where (lt_x, lt_y) i
```

Effect Example

Left: original video; Right: output video after erasure.

Scenario 4: Subtitle Extraction and Translation

Description

The subtitles in the video image are recognized, analyzed, and proofread and then translated into the specified language, and both the original and translated subtitle files are generated.

Parameter

```
{\\"delogo\\":{\\"CustomerAppId\\":\\"subtitle_extract\\",\\"subtitle_param\\":
{\\"translate_dst_language\\":\\"en\\"}}
/*
Note: translate_dst_language is used to specify the target language. If translate_ds:
    Other values: en: English, zh: Chinese.
*/
```

Effect Example



Left: original video; Right: extracted subtitle file.

Scenario 5: Subtitle Removal

Description

The text at the **lower middle part** of the video image is automatically recognized and removed using AI models to generate a new video. This feature offers two editions:

Version 2: This edition is recommended. Delivers enhanced seamless processing with superior detail preservation and optimized execution speed.

Version 1: Specifically designed for specialized subtitle formats (including background shadows, stylized typography, and dynamic effects). Provides extended coverage area for element removal, though with relatively reduced detail fidelity and slower processing performance compared to Version 2.

Version 2 Parameters

```
{\\"delogo\\":{\\"cluster_id\\":\\"gpu_zhiyan\\",\\"CustomerAppId\\":\\"subtitle_er
{\\"delogo\\":{\\"cluster_id\\":\\"gpu_zhiyan\\",\\"CustomerAppId\\":\\"subtitle_er
```

Version 1 Parameters

```
{\\"delogo\\":{\\"cluster_id\\":\\"gpu_pp\\",\\"CustomerAppId\\":\\"subtitle_erase\
```

Effect Example

From left to right: original video; subtitle erasing effect by using the Version 1; subtitle erasing effect by using the Version 2.

Scenario 6: Face Mosaic

Description

After faces in the video image are recognized, **mosaic processing** is applied to the faces and a new video is generated.

Parameter

```
{\\"delogo\\":{\\"CustomerAppId\\":\\"facial_mosaic\\"}}
```

Effect Example

Left: original video image; Right: processed video with all faces mosaicked.

Scenario 7: Face Blur



Description

After faces in the video image are recognized, **blur processing** is applied to the faces and a new video is generated.

Parameter

{\\"delogo\\":{\\"CustomerAppId\\":\\"facial_blur\\"}}

Effect Example

Left: original video image; Right: face blur processing.

Scenario 8: Face and License Plate Mosaic

Description

After faces and license plates in the video image are recognized, mosaic processing is applied to both the faces and license plates and a new video is generated.

Parameter

```
{\\"delogo\\":{\\"CustomerAppId\\":\\"facial_and_numberplate_mosaic_v2\\"}}
```

Effect Example

Left: original video image; Right: both faces and license plates mosaicked.

3. Additional Details on ExtendedParameters

The preceding section provided a succinct overview of several prevalent methods for passing **ExtendedParameter**, aimed at designating erasure scenarios. What follows is a display of all the parameters supported by **ExtendedParameter** along with their descriptions:

```
"delogo":{
        "CustomerAppId": "subtitle_extract", # string; Set up scene parameters: Di
        "cluster_id": "",
                                     # string; Reserved fields: Used for schedulin
        "output_patten": "{task_type}-{session_id}", # string; Output file name:
        "als_filter": {
                                 # JSON object: recognition results filter.
           "min_ocr_height": 10, # Float; Must be greater than or equal to 0. Fo
           "max_ocr_height": 0.06, # Float; Must be greater than or equal to 0. Fo
           "active_areas": [
                                  # JSON array: Area filter. Only recognition res
                {
                    "lt_x": 0.1, # float, valid if >= 0; x coordinate of top-left
                   "lt_y": 0.6, # float, valid if >= 0; y coordinate of top-left
                   "rb_x": 0.9, # float, valid if >= 0; x coordinate of bottom-r
                    "rb_y": 0.95 # float, valid if >= 0; y coordinate of bottom-ri
               }
```

```
},
"custom_objs": { # json object; custom erasure area
      "type": 0, # int, set to 0; specify type
       "time_objs": [# json array; time area information
          {
              "begin_ms": 0, # int; start time, in ms, if not filled, same a
              "end ms": 100, # int; end time, in ms, if not filled, same as
              "objs": [ # json array; area information
                 {
                     "rect": { # json object; target area
                         "lt_x": 55, # float, valid if >= 0; x coordinate o
                         "lt_y": 143, # float, valid if >= 0; y coordinate o
                         "rb_x": 327, # float, valid if >= 0; x coordinate o
                         "rb_y": 192 # float, valid if >= 0; y coordinate o
                     },
                     "score": 100, # int, fill 100 here; target reference s
                                  # int; target type, 1 for logos, 2 for
                     "type": 2,
                     "value": "LUSN" # string; target value, e.g., text reco
                 }
             ]
          }
      ]
  }
  "margin_bottom": 0.2, # float, valid if >= 0; for subtitle file re
          "font_size": 50,
                              # float, valid if >= 0; for subtitle file re
          "font_type": "simkai", # string; subtitle rendering font: simkai fo
  "translate_dst_language": "en" # string; for subtitle translation, leave e
  }
```

4. Querying Task Results

}

Querying a Task in the Console

Log in to the console and go to VOD Processing Tasks, where the newly initiated tasks are displayed in the task list.

When the subtask status is "Successful", you can go to **COS Bucket** > **Output Bucket**, find your output directory, and locate the files starting with delogo- in the directory, which are the output files processed by smart erase.

Querying Task Results by Calling an API

Call the DescribeTaskDetail API and fill in the task ID (for example, 24000022-WorkflowTaskb20a8exxxxxx1tt110253 or 24000022-ScheduleTask-774f101xxxxxx1tt110253) to query task results. Example:

Event Notification Callback

When initiating an MPS task using ProcessMedia, you can set callback information through the TaskNotifyConfig parameter. After the task is completed, the task results will be called back through the configured callback information. You can parse the event notification results through ParseNotification.

Integration Method 2: Initiating a Task from Console (Zero Code)

Note:

When an erasure task is initiated from the console, the default scenario is **watermark removal**. For other erasure scenarios, use the API to specify an erasure scenario through parameters. For details, refer to the above Integration Method 1: Integrating Through API.

1. Creating a Task

1.1 Log in to the MPS console and click **Create Task > Create VOD Processing Task**.

 Specify an input video file. Currently, the smart erase feature supports two input sources: Tencent Cloud Object Storage (COS) and URL download addresses. AWS S3 is currently not supported.
 In the "Process Input File" step, add the Intelligent Analysis node.

In the intelligent analysis settings drawer that pops up, select the preset smart erase template (template ID: 24). If you need to enable the smart erase feature for a custom intelligent analysis template, you can contact us and provide the **template ID**, and Tencent Cloud MPS developers will configure and enable the smart erase feature for you. **Note:**

The preset template (template ID: 24) defaults to the **watermark removal** scenario. For other erasure scenarios, refer to the above method 1 of integrating through API.

1.4 After specifying the save path for the output video after erasure, click Create to initiate the task.

2. Querying Task Results

After the task is completed, you can go to the console, choose **COS Bucket > Output Bucket**, and find the output file. For detailed directions, see <u>Querying Task Results</u> above.

3. Automatically Triggering a Task (Optional Capability)

If you require automatically performing smart erase according to the preset parameters after a video file is uploaded in the COS bucket, you can:

3.1 When creating a task, click **Save The Orchestration**, and configure parameters such as Trigger Bucket and Trigger Directory in the pop-up window.

3.2 Go to the **VOD Orchestration** list, find the new orchestration, and turn on the switch at **Enable**. Subsequently, any new video files added to the trigger directory will automatically initiate tasks according to the preset process and parameters of the orchestration, and the processed video files will be saved to the output path configured in the orchestration.

Note:

It takes 3-5 minutes for the orchestration to take effect after being enabled.

FAQs

Which logos can be erased?

This service erases logos based on AI recognition. Currently, over ten logos can be recognized and erased. For logos that are not supported currently, the customized training service is provided, which incurs a model training fee.

Are fees charged for videos without a logo?

Yes. The service still performs recognition even if the video has no logo, which also consumes computing resources.



Is live streaming supported?

Currently, only VOD files are supported by the external interface. For live streaming processing needs, please get in touch with the developer.

ck information will relay the task results.

How to specify the output file name?

You may specify the output filename within the **ExtendedParameter** through the parameter **output_pattern**. The placeholder symbol is {}, and the placeholders support task_type , session_id , with the default output being {task_type}-{session_id} . Usage example:

```
//Example code before translation, only suitable for use in API Explorer:
{
    "delogo": {
        "CustomerAppId": "subtitle_extract",
        "subtitle_param": {
            "translate_dst_language": ""
        },
        "output_patten": "custom-{task_type}-{session_id}"
    }
}
// If using the API directly, escape the above code as a string:{\\"delogo\\":{\\"d
// The output file name for the above parameters will be: custom-delogo-02EF93096AD
```
Video Splitting (Long Videos to Short Videos) Tutorial

Last updated : 2025-04-27 14:14:55

Video splitting can segment a complete long video. For example, it can split complete news broadcast material into multiple news event videos, significantly enhancing the splitting quality of news and sports videos, promoting secondary creation, and saving labor and hardware costs. Video splitting supports processing offline videos and live streams. For details, see Processing Offline Videos and Processing Live Streams.

Processing Offline Videos

Integration Method 1: Initiating a Task via API

Call the Media Processing Service (MPS) API, select **AiAnalysisTask**, set **Definition** to **27 (preset video splitting template)**, and enter extended parameters in ExtendedParameter for specific capabilities. For details, see Specifying a Splitting Scenario below.

1. Specifying a Splitting Scenario

Note:

Several preset ExtendedParameter parameters are provided below.

To ensure splitting effects, it is recommended that you contact us. We can confirm the specific parameters based on your video scenarios and provide ongoing optimization support.

Scenario 1: News Splitting

Description

Characteristics such as the director's desk and "breaking news" in news videos are recognized to split the news. The output includes the split video segments, the cover image of each segment, and the start and end times of each segment.

Parameter

If ExtendedParameter is **not specified**, the news splitting scenario is used by default.



Effect Example

The original news (the 30-minute video on the left) has been split into multiple short videos of a few minutes each (the videos on the right).

Scenario 2: Large Language Model (LLM) Splitting

Description

The text is extracted by recognizing the video's speech and text content, and the video is split into segments intelligently based on the large language model (LLM). The output includes the split video segments, the cover image of each segment, and the start and end times, title, and summary of each segment.

Parameter

Enter the following parameters in ExtendedParameter. For specific parameters, it is recommended to confirm offline. The output includes the split video segments, the cover image of each segment, and the start and end times, title, and summary of each segment.

```
/*Example of filling in the parameters*/
{
    "des": {
        "split": {
            "method": "llm",
            "model": "deepseek-v3",
            "max_split_time_sec": 100,
            "extend_prompt": "This video is a medical scenario video, which is segm
        }
    },
    "strip": {
        "type": "content"
    }
}
```

Refer to the table below for optional parameters in the "des" field:

Parameter	Required	Туре	Description
split.method	No	string	Segmentation Method: Ilm indicates Large Language Model-based segmentation, nlp indicates traditional NLP-based segmentation. The default value is Ilm .
split.model	No	string	Segmentation IIm: Available options include Hunyuan, DeepSeek-V3, DeepSeek-R1. The default value is DeepSeek-V3 .



split.max_split_time_sec	No	int	Forces the maximum segmentation time in seconds to be specified. It is recommended to use it only if necessary, it may affect the segmentation effect. The default value is 3600.
split.extend_prompt	No	string	Requirements for segmentation task prompts. For example: "This instructional video is segmented by knowledge points". It is recommended to initially leave blank for testing and supplement prompts only when results fall short of expectations.
dstlang	No	string	Video language, used to specify the language for video speech recognition and summary generation. The default value is "zh". "zh": Chinese. "en": English.

Effect Example

Example of LLM Output after Splitting

Scenario 3: Target Splitting

Description

Key frames where specified targets such as objects and characters appear in the video are recognized, and the corresponding segments are extracted. For example, for surveillance videos, only the segments with people appearing are extracted. The output includes the split video segments, the cover image of each segment, and the start and end times of each segment.

Parameter

Enter the following parameters in ExtendedParameter. For the specific targets to be detected, it is recommended to confirm offline.

```
{"strip":{"type":"object","objects":["person"], "object_set":[91020415]}}
```

Effect Example

Customer case: Segments with people appearing are extracted from surveillance videos to reduce storage costs.

2. API Explorer Quick Verification

You can perform quick verification through API Explorer. After filling in relevant parameter information on the page,

you can initiate an online API call.

Note: API Explorer will automatically convert the format. You only need to enter the corresponding ExtendedParameter in JSON format without converting it to a string.

3. Querying Task Results

Task callbacks: When initiating an MPS task using ProcessMedia, you can set callback information through the TaskNotifyConfig parameter. After the task is completed, the task results will be called back through the configured callback information. You can parse the event notification results through ParseNotification.

Query via the DescribeTaskDetail API:

For tasks started with the API and a template as described in **Integration Method 1** above, use the TaskId from ProcessMedia (for example: 24000022-WorkflowTask-b20a8exxxxxx1tt110253) to parse

AiAnalysisResultSet in WorkflowTask .

For tasks started via ProcessMedia without a template but with a ScheduleId (the subsequent section on automatic task triggering explains how to create a schedule), the returned TaskId will include "ScheduleTask" (e.g. 24000022-ScheduleTask-774f101xxxxxx1tt110253). In this scenario, use the TaskId to parse

ActivityResultSet in ScheduleTask .

For tasks initiated from the console, as described in **Integration Method 2** below, go to Tasks -> VOD for the task ID and results. For some task results not currently previewable on the console, such as the titles and summaries of segmented outputs, you can parse the ActivityResultSet in ScheduleTask in the DescribeTaskDetail API to obtain them.

Query via console: Log in to the console and go to Tasks -> VOD, where the newly initiated tasks are displayed in the task list.

When the subtask status is "Successful", you can go to **COS Bucket** > **Output Bucket**, find your output directory, and locate the files starting with strip- in the directory, which are the output files of video splitting (segmented videos and cover images).

Note:

Text content such as titles and summaries will not be output to the bucket, and it should be obtained through event callbacks or API queries.



Integration Method 2: Initiating a Task from Console (Zero Code)

Note:

When a video splitting task is initiated from the console, the default scenario is **news splitting**. For other splitting scenarios, use the API to specify a splitting scenario through parameters. For details, refer to the above Integration Method 1: Initiating a Task via API.

1. Creating a Task

1.1 Log in to the MPS console and click Create Task > Create VOD Processing Task.

 Specify an input video file. Currently, the video splitting feature supports two input sources: Tencent Cloud Object Storage (COS) and URL download addresses. AWS S3 is currently not supported.
 In the "Process Input File" step, add the Intelligent Analysis node.

In the intelligent analysis settings drawer that pops up, select the **preset video splitting template (template ID:** 27). If you need to enable the video splitting feature for a custom intelligent analysis template, you can **contact us and provide the** template ID, and Tencent Cloud MPS developers will configure and enable the video splitting feature for you.

Note:

The preset video splitting template (template ID: 27) defaults to the **news splitting scenario**. For other splitting scenarios, use the API to specify a splitting scenario through parameters. For details, refer to the above Integration Method 1: Initiating a Task via API.

1.4 After specifying the save path for the output video, click **Create** to initiate the task.

2. Querying Task Results

Refer to the above Querying Task Results.



3. Automatically Triggering a Task (Optional Capability)

If you require automatically performing video splitting according to the preset parameters after a video file is uploaded in the COS bucket, you can:

3.1 When creating a task, click **Save The Orchestration**, and configure parameters such as Trigger Bucket and Trigger Directory in the pop-up window.

3.2 Go to the **VOD Orchestration** list, find the new orchestration, and turn on the switch at **Enable**. Subsequently, any new video files added to the trigger directory will automatically initiate tasks according to the preset process and parameters of the orchestration, and the processed video files will be saved to the output path configured in the orchestration.

Note:

It takes 3-5 minutes for the orchestration to take effect after being enabled.

Processing Live Streams

Integration Method: Initiating a Task via API

Call the ProcessLiveStream API, select **AiAnalysisTask**, and set AiAnalysisTaskInput - **Definition** to 27 (preset video splitting template).

Enter extended parameters in ExtendedParameter for specific capabilities.

1. Specifying a Splitting Scenario

Live streams currently support news splitting and NLP splitting scenarios, and do not support the target splitting scenario. For details, see the above Specifying a Splitting Scenario.

2. Querying Task Results

Receive task callbacks: When initiating an MPS task using ProcessLiveStream, set callback information through the TaskNotifyConfig parameter. During live stream processing, the task results will be called back in real time through the configured callback information. You can refer to ParseLiveStreamProcessNotification to parse the AiAnalysisResultInfo field to obtain the task results.



Horizontal-to-Vertical Video Transformation Tutorial

Last updated : 2025-02-27 17:31:30

Overview

About Horizontal-to-Vertical Video Transformation

Horizontal-to-vertical video transformation is not merely a rotation but involves identifying the region of interest (ROI) and cropping a video to a certain proportion suitable for playback on mobile devices. Horizontal-to-vertical video transformation enables batch generation of short videos and allows existing horizontal video resources to be converted into vertical video resources.



when the video is converted into a vertical one.

Input and Output Formats

The input video files support the following formats:

Encoding standards: MPEG, H.264, and H.265.

Container formats: .mp4, .avi, .mkv, .mov, and .mpg.

The output video files are uniformly encoded in H.264 and formatted in .mp4. You can preview videos using the Google Chrome browser. If you require transcoding and remuxing of formats, you can process it locally or use the audio/video transcoding feature provided by Media Processing Service (MPS).

Integration Method 1: Initiating a Task via API



1. Calling an API

You can directly initiate a POST request to Tencent Cloud. The API request domain name is mps.tencentcloudapi.com. Call the MPS API, select **AiAnalysisTask**, and set Definition to **28 (preset horizontal-to-vertical video transformation template).** ExtendedParameter is an extended parameter, and its value is an **escaped JSON string**. For specific parameter meanings, see Extended Parameter Description below.

AiAnalysisTaskInput

Al video intelligent analysis input parameter types

Used by actions: CreateSchedule, CreateWorkflow, DescribeTaskDetail, DescribeWorkflows, ModifySchedule, ParseNotification, ProcessLiveStream, ProcessMedia, ResetWorkflow.

Name	Туре	Required	Description
Definition	Integer	Yes	Video content analysis template ID.
ExtendedParameter	String	No	An extended parameter, whose value is a stringfied JSON. Note: This parameter is for customers with special requirements. It needs to be customized offline. Note: This field may return null, indicating that no valid values can be obtained.

Request Example

Note:

Currently, the horizontal-to-vertical video transformation feature supports two input sources: Tencent Cloud Object Storage (COS) and URL download addresses. AWS S3 is currently not supported.

```
{
    "Action": "ProcessMedia",
    "Version": "2019-06-12",
    "InputInfo": {
        "Type": "URL",
        "UrlInputInfo": {
            "Url": "https://..." // Replace it with the URL of the video that needs
        ł
    },
    "OutputStorage": {
        "CosOutputStorage": {
            "Bucket": "BucketName",
            "Region": "BucketRegion"
        },
        "Type": "COS"
   },
    "OutputDir": "/mycos/htv_test/result/",
    "AiAnalysisTask": {
```

```
"Definition": 28, // Preset horizontal-to-vertical video transformation tem
    "ExtendedParameter": "{\\"htv\\": {\\"AlgorithmType\\": 1}}"
}
"TaskNotifyConfig": {
    "NotifyType": "URL",
    "NotifyUrl": "http://callback_url"
}
```

2. API Explorer Quick Verification

You can perform quick verification through API Explorer. After filling in relevant parameter information on the page, you can initiate an online API call.

Cloud API	API Explorer Media Processing Se	rvice (MPS) •						
API Explorer	Enter API name Q	ProcessMedia mps 2019-06-12	Complain	Online invocation	Sample Code	Sample CLI	Sample Signature	Parame
API Doctor	Workflow Management APIs ^ DisableSchedule EnableSchedule	Input Parameters Region ①		Note that sending Click "Send Requ	g requests via the AP uest" below to send t	PI is equivalent to re the parameters ente	al operations red on the left to the corre	esponding A
	DeleteSchedule	This parameter is not required for this API	1	Send request				
	CreateSchedule	Parameter input method						
	CreateWorkflow	Form JSON Recommended parameter	ers					
	DeleteWorkflow	▲ Inputinfo [*] ①						
	DescribeSchedules	Туре 🛈						
	DescribeWorkflows	URL	0					
	DisableWorkflow	Cosinputinfo ()		Video file address to				
	Enableworknow			be processed				
	ResetWorkflow	//mvcos-123456.cos.ap-naniing.mvgcloud.com/MPS/input/demo.mp.@						
	Parameter Template APIs							
	Media Processing APIs	▶ S3InputInfo ()						
	DescribeMediaMetaData	▲ OutputStorage (Optional) [*] ③						
	EditMedia	Туре 🛈						
	ProcessLiveStream	COS	0					
	ProcessMedia	▲ CosOutputStorage ①						
	Other APIs v	Bucket (j)						
	Task Management APIs	mycos-123456	•					
	Al-based Sample Management APIs	Region (j)		Output file save path				
		ap-nanjing 🕻	•					
		► S3OutputStorage (j)						
		OutputDir (Optional) [*] 🕃						
		/output/	8					
		Scheduleid (Optional) [*]						
		integer						
		MediaProcessTask (Optional) [*] ① AlContentReviewTask (Optional) [*] ① AlAnalysisTask (Optional) [*] ①						
		Definition (ID of the Horizontal t	0			
		28		Vertical template				
		ExtendedParameter (j)		•	6au			
		{\"htv\": {\"AlgorithmType\": 2,\"FaceDetect\": 1,\"FaceD	0	Horizontal to Vertical	TOF			
		AiRecognitionTask (Optional) [#] () AlQualityControlTask (Optional) [#] () TaskNotifyConfig (Optional) [#] ()						
		NotifyType ③	0					
		NotificAlorde (3)	-	Event notification car	n			
		string		synchronize the prog	ress sks in			
		Notifid III (real time				
		http://www.qq.com/callback	0					
		CmoModel ①	-					

Note:

API Explorer will automatically convert the format. You only need to enter the corresponding ExtendedParameter in JSON format without converting it to a string. If calling the API directly, you need to escape the JSON string.

3. Extended Parameter Description

S Tencent Cloud

Extended parameters can enable specific capabilities. Since the MPS API cannot parse extended parameters, the value of ExtendedParameter is a **serialized JSON string**. The ExtendedParameter for horizontal-to-vertical video transformation should be placed under htv. Below is an example of a JSON before serialization. Input the escaped parameters when using the API:

```
{
    "htv": {
      "AlgorithmType": 3,
      "Ratio": "16:9",
      "ModelName": "sport",
      "FaceDetect": 1,
      "FaceDetectConfig": {
          "FaceScoreThd": 80,
          "FaceAccuracy": "Efficiency",
          "FallbackConfig": {
              "NoFaceDetect": "Scale",
              "DoubleFace": "SplitScreenVertical",
          },
      },
      "OutputPattern": "{sessionId}-{timestamp}"
      "BlurWeight": 41,
      "SmoothWeight": 0.75, //
    }
}
// Before escaping (usable in API Explorer): {"htv": {"AlgorithmType": 3, "FaceDet
```

// After escaping (required when the API is called directly): {\\"htv\\": {\\"Algor

Name	Туре	Description
AlgorithmType	Integer	 Designated Algorithm Categories: 1: a general model with a relatively rapid processing speed. 2: supports a variety of models and is tailored for optimization. 3: Utilizes a precise face detection algorithm; when two faces are detected, they are displayed in a split-screen format, with efforts made to center the faces as much as possible. 5: Scale the video directly and center it on the portrait screen. Use an image processed with a frosted glass effect as the background.
Ratio	String	Video aspect ratio, which is a string and parsed internally. If parsing fails, the default value of 9:16 is used for cropping (for example, "9:16" indicates converting to a video with an aspect ratio of 9:16, taking the original video's height).
FaceDetectConfig	Object	Face detection configurations.
OutputPattern	String	For customizing the filename, timestamp and sessionId serve



		as available substitution parameters.				
		<pre>For instance, "htv-{sessionId}-{timestamp}" would result in</pre>				
		the output file being named "htv-xxxx-202412250000", where "xxxx" represents the actual sessionId of the task. If not specified, the default output filename will be "htv-				
		{sessionId}".				
BlurWeight	Integer	Blurring parameter: the higher the value, the more pronounced the blurring effect. Excessively high parameter values may impede processing speed.				
SmoothWeight	Float	A floating-point number between 0 and 1, which controls the parameter for smoothing speed. The smaller the value, the faster the camera moves.				

FaceDetectConfig

Name	Туре	Description
FaceScoreThd	Integer	The recognition threshold for the face detection algorithm. A face is considered valid only when the recognition score exceeds this threshold.
FaceAccuracy	String	Optional, the number of executions for the face detection algorithm, defaults to "Balance". Other selectable options include "Efficiency" and "Precision".
FallbackConfig	Object	The fallback strategy for face detection includes scenarios with "NoFaceDetect" (no faces detected) and "DoubleFace" (two faces detected).

FallbackConfig

Name	Туре	Description
NoFaceDetect	String	Options: "Scale", "ScaleWithoutBlur" (default).
DoubleFace	String	Options: "Scale", "ScaleWithoutBlur", "SplitScreenVertical" (default).

Scale: Center the frame through scaling, and replace the background with an image treated with a frosted glass effect. ScaleWithoutBlur: Center the frame through scaling, and replace the background with pure black.

SplitScreenVertical: The default processing logic for dual faces involves splitting the screen vertically, with each face centered in the top and bottom areas respectively.

4. Querying Task Results

Task callbacks: When initiating an MPS task using ProcessMedia, you can set callback information through the TaskNotifyConfig parameter. After the task is completed, the task results will be called back through the configured callback information. You can parse the event notification results through ParseNotification. The related data structures listed below are provided for reference.

Query via the DescribeTaskDetail API:

For tasks started with the API and a template as described in **Integration Method 1** above, use the TaskId from ProcessMedia (for example: 24000022-WorkflowTask-b20a8exxxxxx1tt110253) to parse

AiAnalysisResultSet in WorkflowTask . The related data structures listed below are provided for reference.

For tasks started via ProcessMedia without a template but with a ScheduleId (the subsequent section on automatic task triggering explains how to create a schedule), the returned TaskId will include "ScheduleTask" (e.g. 24000022-ScheduleTask-774f101xxxxxx1tt110253). In this scenario, use the TaskId to parse

ActivityResultSet in ScheduleTask .

For tasks initiated from the console, as described in **Integration Method 2** below, go to Tasks -> VOD for the task ID and results. You can also parse the ActivityResultSet in ScheduleTask in the DescribeTaskDetail API to obtain the task results.

Query via console: Log in to the console and go to VOD Processing Tasks, where the newly initiated tasks are displayed in the task list.

Media Processing Service	VOD Process	sing Tasks								
Overview										
Oreate Task	 This page 	ge only shows tasks in the past sev	ren days							
Tasks ^	Create task								Enter task ID. Separate r	nultiple IDs with ;
• VOD	Task ID			Status T	Task type 🔻	Creation time ↓		End time 💲		Operation
• Live										Hide details Restart End
Template and Orchestration		-ebcd8.	135tt261	Completed	Intelligent Analysis	Nov 15, 2024 11:52:21 (UTC+0	B:00)	Nov 15, 2024 11:54	4:25 (UTC+08:00)	Play source video
To Templates -	Cubbeek bie	Culture status	Ouklash kura 🔻	Translate Trace V	Chart time +	End time +	Output			Oneration
0.0.1.1	Subtask No.	Subtask status	Subtask type	Template Type	Start unie 👻	End ume 🗣	Output			Operation
Co Orchestrations *	1	Successful	Intelligent Analysis	Intelligent Analysis	Nov 15, 2024 11:52:21 (UTC	Nov 15, 2024 11:53:37 (UTC	-			View Details View Down
Resource Usage										
() Usage Statistics	Total items: 1								10 v / p	age H 4 1 /1 page
Resource Packs										
More Services										
🕸 More services 🔹 👻										
General Settings *										
🖵 Terminal SDK 🛛 🗸										

When the subtask status is "Successful", you can go to **COS Bucket** > **Output Bucket**, find your output directory, and locate the files starting with htv- in the directory, which are the output videos after horizontal-to-vertical video transformation.



Media Processing Service	COS Bucket Source buckets Output bucket		
⊕ Create Task	Output bucket / _ / output /		
🖹 Tasks 🛛 👻	Upload New folder Refresh		
Template and Orchestration			
🕞 Templates 🛛 👻	File name 🗘	Size ‡	Modification Time
 Orchestrations ^ VOD 	htv-02 3382577.mp4	7.74 MB	2024-11-19 16:03:31 Preview Download
Orchestration • Live Orchestration	strip-0⁄2 19142-20.mp4	4.58 MB	2024-11-15 18:04:10 Preview Download
COS Bucket	strip-0; -24.jpg	11.88 KB	2024-11-15 18:04:10 Preview

Related Data Structures

AiAnalysisTaskHorizontalToVerticalResult

Horizontal-to-vertical video transformation result type.

Referenced by the following APIs: DescribeTaskDetail and ParseNotification.

Name	Туре	Description
Status	String	Task status, including PROCESSING, SUCCESS, and FAIL.
ErrCode	Integer	Error code. 0: Successful; other values: Failed.
Message	String	Error message.
Input	AiAnalysisTaskHorizontalToVerticalInput	Horizontal-to-vertical video transformation task input.
Output	AiAnalysisTaskHorizontalToVerticalOutput	Horizontal-to-vertical video transformation task output. Note: This field may return null, indicating that no valid value is obtained.

AiAnalysisTaskHorizontalToVerticalInput

Horizontal-to-vertical video transformation task input type.

Referenced by the following APIs: DescribeTaskDetail and ParseNotification.

Name	Туре	Description
Definition	Integer	Horizontal-to-vertical video transformation template ID.

${\it AiAnalysis} Task Horizontal To Vertical Output$

Horizontal-to-vertical video transformation result information.

Referenced by the following APIs: DescribeTaskDetail and ParseNotification.

Name	Туре	Description
Path	String	Horizontal-to-vertical video transformation list.
OutputStorage	TaskOutputStorage	Storage location of videos after horizontal-to-vertical transformation. Note: This field may return null, indicating that no valid value is obtained.

Integration Method 2: Initiating a Task from Console (Zero Code)

1. Creating a Task

1.1 Log in to the MPS console and click Create Task > Create VOD Processing Task.



1.2 Specify an input video file. Currently, the horizontal-to-vertical video transformation feature supports two input sources: Tencent Cloud COS and URL download addresses. AWS S3 is currently not supported.

1.3 In the "Process Input File" step, add the Intelligent Analysis node.

Course MOD										
Create VOD	Processing Task									
Specify Inp	ut File									
ut File Source 🔇	Tencent Cloud Object Storage (COS)	URL AWS S3								
ect Input File *	Select files from COS.		Select							
Process Inn	ut Filos									
Process mp										
Create Orchestrati	ion Select Existing Orchestration	Through the orchestration, MI	PS feature nodes	an be combined, su	ich as enhancii	ng the video	before trans	coding to fo	orm an automa	tic processing
		-								
l i 🕨 Inp	put +	Intelligent Analys X ×		Output						
	· · · · · · · · · · · · · · ·									
	· · · · · · · · · · · · · · · · · · ·			 						
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · ·						
ıble event notificati	ions()									
ible event notificati	ions ()									
able event notificati	ions ()									
able event notificati	ions () () tput Path Select a folder path from COS.		Select							
able event notificati	ions (i) (i) tput Path Select a folder path from COS. To specify the output path of a feature r	iode separately, you can click the fea	Select sture node in step	2 and configure it i	n More Setting	gs > Customi	ze Output Pa			
able event notificati Specify Out tput Save Path •	ions () tput Path Select a folder path from COS. To specify the output path of a feature r	iode separately, you can click the fea	Select ature node in step	2 and configure it i	n More Setting	gs > Customi	ze Output Pa	ath.		
able event notificati Specify Out tput Save Path *	ions () tput Path Select a folder path from COS. To specify the output path of a feature r	10de separately, you can click the fea	Select ature node in step	2 and configure it i	n More Setting	gs > Customi	ze Output Pa	sth.		
able event notificati Specify Out tput Save Path * Ivanced ttings	ions () () tput Path Select a folder path from COS. To specify the output path of a feature r	10de separately, you can click the fea	Select ature node in step	2 and configure it i	n More Setting	gs > Customi	ze Output Pa	sth.		
able event notificati Specify Out tput Save Path • Ivanced ttings :ociate Resource	ions () () tput Path Select a folder path from COS. To specify the output path of a feature r Select associated resources.	vode separately, you can click the fea	Select ature node in step	2 and configure it i	n More Setting	gs > Customi	ze Output Pa	ath.		
able event notificati Specify Out tput Save Path * Ivanced ttings	ions () () tput Path Select a folder path from COS. To specify the output path of a feature r Select associated resources. After the resource is associated, the cost	10de separately, you can click the fea	Select ature node in step d on the tags box	2 and configure it i	n More Setting	gs > Customi dify resource	ze Output Pa	ath.	coation Manag	ement 🗹.
able event notificati Specify Out tput Save Path * Ivanced ttings :ociate Resource	ions () Equat Path Select a folder path from COS. To specify the output path of a feature r Select associated resources. After the resource is associated, the cost	10de separately, you can click the fea	Select ature node in step d on the tags box	2 and configure it i	n More Setting	gs > Customi dify resource	ze Output Pa 25, please go	to Cost Alle	ocation Manag	ement 🗗.
sble event notificati Specify Out tput Save Path * Ivanced ttings iociate Resource	ions () () Eput Path Select a folder path from COS. To specify the output path of a feature r Select associated resources. • After the resource is associated, the cost	10de separately, you can click the fea	Select ature node in step d on the tags box	2 and configure it i nd to the resources	n More Setting	gs > Customi	ze Output Pa ts, please go	to Cost Alle	ocation Manag	ement 🛃.

In the intelligent analysis settings drawer that pops up, select the **preset horizontal-to-vertical video transformation template (template ID: 28)**.

Note:

If you need to enable the horizontal-to-vertical video transformation feature for a custom intelligent analysis template, you can contact us and provide the **template ID**, and Tencent Cloud MPS developers will configure and enable the horizontal-to-vertical video transformation feature for you.

Select template

O Intelligent Analysis Template

You can also create a template 🔀 and then refresh this list.

Template name/II	O Analysis Items	Creation time	Update Time	Template Type T	Operation
o analysis 57374	Intelligent video tagging、Intelligent	Jun 04, 2024 11:05:40 (UTC+08:00)) Jun 04, 2024 11:05:40 (UTC+08:00)	Custom	View
Presetting-Templat	te28 Intelligent landscape- to-portrait	Sep 10, 2024 15:41:13 (UTC+08:00)	3 Sep 11, 2024 15:35:45 (UTC+08:00)	Preset	View
Presetting-Templat	te27 Video segmentation	Oct 29, 2024 10:09:28 (UTC+08:00)	3 Oct 29, 2024 10:27:11 (UTC+08:00)	Preset	View
Presetting-Templat	te26 Highlights	Jul 04, 2024 18:11:14 (UTC+08:00)	Jul 05, 2024 10:11:36 (UTC+08:00)	Preset	View
Presetting-Templat	te24 Intelligent removal (watermark removal)	Dec 07, 2023 10:06:55 (UTC+08:00)	5 Oct 14, 2024 10:43:10 (UTC+08:00)	Preset	View
Presetting-Templat	te22 Large model video summary	Dec 06, 2023 20:24:23 (UTC+08:00)	3 Dec 07, 2023 10:31:12 (UTC+08:00)	Preset	View
Presetting Templat	e20 Intelligent categorization、	Jan 01, 2017 00:00:00 (UTC+08:00)) Jan 18, 2021 11:20:44 (UTC+08:00)	Preset	View
Presetting Templat	e10 Intelligent categorization、	Jan 01, 2017 00:00:00 (UTC+08:00)) Jan 18, 2021 11:20:44 (UTC+08:00)	Preset	View
Total items: 8			10	✓ / page	1 / 1 page 🕨

1.4 After specifying the save path for the output video, click **Create** to initiate the task.

Create VOD	Processing Task
1 Specify Inp	put File
Input File Source	Tencent Cloud Object Storage (COS) URL AWS S3
Select Input File *	Select
2 Process Inp	put Files
Create Orchestrat	tion Select Existing Orchestration Through the orchestration, MPS feature nodes can be combined, such as enhancing the video before transcoding to form an automatic process
i i i i 🕨 Inj	put
Enable event notificat	
3 Specify Ou	tput Path
Output Save Path *	Select
	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.
Advanced	
Settings	
Associate Resource	Select associated resources.
	After the resource is associated, the costs for this task can be allocated based on the tags bound to the resources. To add or modify resources, please go to Cost Allocation Management 🗹
Create	

2. Querying Task Results

Refer to the above Querying Task Results.

3. Automatically Triggering a Task (Optional Capability)

If you require automatically performing horizontal-to-vertical video transformation according to the preset parameters after a video file is uploaded in the COS bucket, you can:

3.1 When creating a task, click **Save The Orchestration**, and configure parameters such as Trigger Bucket and Trigger Directory in the pop-up window.

Overview Products * Cloud Application F	Save Orchestration		×	
Create VOD Processing Task	Before the VOD	Networketeles is served, you used to entry the outer Means and Elect VAN Automaticalies in the mean and enable it Ween you unlead a		
	new file to the trig	ger bucket, the processing task will be triggered automatically.		
1 Specify Input File	Trigger type	AWS Tennent Cloud COS		
Input File Source O Tencent Cloud Object	119901 950			
Select Input File * https://vivien-12563424	Orchestration name •	Orchestration1		
Process Input Files	Trigger bucket	Max 12e characters; supports Chinese characters, letters, digits, underscores, and hypnens. Tokyo y 37 *		
Create Orchestration Select Existin	Trigger directory	/input/		
		Starts and ends with "/". If you leave this empty, the orchestration will be applied to all directories of the bucket.		
input	Output bucket •	yu 37 🔻		
	Output directory	/output/		
		Must start and end with a slash (/). If you do not specify this, the output directory will be the same as the trigger directory.		
	Actions *			Save the Orchestrat
Enable event notifications ()		Input Intelligent Analys		
3 Specify Output Path				
Output Save Path * [ap-tokyo] yunatest-1				
To specify the output pa				
	Enable event notifications			
Create	Off-peak transcoding			
		Idle time transcoding only supports the configuration of general video transcoding and audio/video TSC transcoding nodes. More id capabilities will be available in the future.	e time	
		Save Cancel		

3.2 Go to the **VOD Orchestration** list, find the new orchestration, and turn on the switch at **Enable**. Subsequently, any new video files added to the trigger directory will automatically initiate tasks according to the preset process and parameters of the orchestration, and the processed video files will be saved to the output path configured in the orchestration.

Note:

It takes 3-5 minutes for the orchestration to take effect after being enabled.

Media Processing Service	VOD Orchestration Through the orch	nestration, MPS feature nodes can be combined, si	uch as enhancing the video before transcoding to f	orm an automatic processing flow.			
 Overview Create Task 	Create a VOD orchestration and enable	ble it. Uploading a new file in the associated bucket	will automatically initiate the processing task.				
🖹 Tasks 🛛 👻	Create VOD Orchestration						Enter an orchestrati
Template and Orchestration	Orchestration name/ID	Orchestration type	Trigger bucket	Trigger directory	Creation time	Enable T	Operation
Templates * S Orchestrations ^	ConvMp4 10101	Preset			Aug 04, 2023 03:31:24 (UTC+08:00)		View Details Edit Delete
 VOD Orchestration 	ConvHIs 10100	Preset			Aug 04, 2023 03:31:24 (UTC+08:00)		View Details Edit Delete
Live Orchestration COS Bucket	Or 11 39	Custom	ap-tokyo	/input/	Nov 15, 2024 11:52:15 (UTC+08:00)		View Details Edit Delete

Media Quality Inspection Integration

Last updated : 2025-02-06 11:37:56

Scenario 1: VOD File Quality Inspection

Method 1: Initiating a Task in the Console

Step 1: Creating VOD Orchestration

1. Log in to the MPS console, click Create VOD Orchestration, and add a Media Quality Inspection node in the Actions field.

	AWS Tencent Cloud COS		
Orchestration name *			
	Max 128 characters; supports Chinese charact	ters, letters, digits, underscores, and	hyphens.
Trigger bucket *	Guangzhou 💌 t	le 💌	
frigger directory			
	Starts and ends with "/". If you leave this emp	oty, the orchestration will be applied	to all directories of the bucket.
Output bucket *	t		
Dutput 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.
inable event notifications			
Dff-peak ranscoding	Currently, off-peak transcoding is only suppo	orted for audio/video transcoding no	ides. More will be supported in the future.
Actions *	Click to ad	d a feature node	
	Input	Output	
		Audio/Video Transcoding	
		Audio/Video Enhancement	
		Intelligent Analysis	
		Intelligent Analysis	
		Intelligent Analysis Intelligent Identification Intelligent Auditing	
Advanced Setti	ngs	Intelligent Analysis Intelligent Identification Intelligent Auditing Media Quality Inspection	
Advanced Setti Associate	ngs	Intelligent Analysis Intelligent Identification Intelligent Auditing Media Quality Inspection Screenshot	

2. After the node is added, a new page pops up. Select a predefined system template or create a custom template based on the actual business scenario on this page. Then, save the settings.



Select template	e Create Custom T	emplate 🔀	
Select template *	30-Quality Scoring	Select	
	Quality Score	Enable No Reference Score	
	Quality Detection	Disabled	
	Format Diagnosis	Disabled	

4. Return to the VOD orchestration list after the orchestration is created, find the newly created orchestration in the list, and click the switch to enable it. The orchestration will take effect in about 3-5 minutes after it is enabled.

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 orchestra	You have enabled to in 3-5 minutes.	his orchestration. It will take effect						
Create VOD Orchestration						Enter an orchestrati		
Orchestration name/ID	Orchestration type	Trigger bucket	Trigger directory	Creation time	Enable T	Operation		
ConvMultiHls 10102	Preset	-	-	Sep 20, 2024 03:31:24 (UTC+08:00)		View Details Edit Delete		
ConvMp4 10101	Preset		-	Aug 04, 2023 03:31:24 (UTC+08:00)		View Details Edit Delete		
ConvHIs 10100	Preset		-	Aug 04, 2023 03:31:24 (UTC+08:00)		View Details Edit Delete		
vod 43016	Custom	te be 1: ap-guangzhou	/	Jan 15, 2025 10:31:31 (UTC+08:00)		View Details Edit Delete		
Total items: 4					10 🔻 / page	 4 1 / 1 page ▶ 		

Step 2: Initiating a VOD Quality Inspection Task

Upload VOD files requiring quality inspection to the trigger directory specified in the orchestration configuration after the orchestration takes effect. The uploaded files will be processed for quality inspection according to the configured node and template of the orchestration.

Step 3: Managing VOD Quality Inspection Tasks

Quality inspection tasks can be viewed on the VOD Processing Tasks page.

Create task									Enter task ID. Separat	e multiple IDs with ;
Task ID			Status T	Task type 🔻		Creation time ↓		End time 🗘		Operation
▼ 20	8-ScheduleTask-5e1967736fcc	3469f4dctt27 1	Completed	Media Quality I	nspection	Feb 05, 2025 15:45:44 (UTC+08:00)		Feb 05, 2025 15:46:12 (UT	C+08:00)	Hide details Restart End Play source
Subtask N	o. Subtask status ▼ S	Subtask type 🔻	Template Type	T	Start time \$	End time \$	Output			Operation
1	Successful	Vedia Quality Inspection	Media Quality Ir	nspection	Feb 05, 2025 15:45:44 (UTC+4	0 Feb 05, 2025 15:46:01 (UTC+0	-			View Details View Down
▶ 26 ⁱ	18-ScheduleTask-3a5b467da536f3424	7ef4tt27 I	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:08:08 (UTC+08:00)		Feb 05, 2025 08:08:36 (UT	C+08:00)	View details Restart End Play source
▶ 26	8-ScheduleTask-0a7133b4ab04465df	14ddabtt27	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:08:06 (UTC+08:00)		Feb 05, 2025 08:08:18 (UT	C+08:00)	View details Restart End Play source
▶ 26	8-WorkflowTask-42cfd88b10d20772t	:c74att27 1	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:07:01 (UTC+08:00)		Feb 05, 2025 08:07:29 (UT	C+08:00)	View details Restart End Play source
▶ 26	8-WorkflowTask-1f26b0dcba8880f8()	0100010d3518tt271	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:07:01 (UTC+08:00)		Feb 05, 2025 08:07:13 (UT	C+08:00)	View details Restart End Play source
▶ 26	8-WorkflowTask-415af50d2b9dd6ct	187595ett27 I	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:07:01 (UTC+08:00)		Feb 05, 2025 08:07:29 (UT	C+08:00)	View details Restart End Play source
▶ 26	8-WorkflowTask-eeb26564b985dc6c	ebe920tt27 T	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:07:00 (UTC+08:00)		Feb 05, 2025 08:07:29 (UT	C+08:00)	View details Restart End Play source
▶ 26	8-WorkflowTask-df86a8c96f41c4dd	8ddett271	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:07:00 (UTC+08:00)		Feb 05, 2025 08:07:13 (UT	C+08:00)	View details Restart End Play source
▶ 260	8-WorkflowTask-22b76a7ff815a9e9	118tt27 T	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:07:00 (UTC+08:00)		Feb 05, 2025 08:15:29 (UT	C+08:00)	View details Restart End Play source
▶ 260	3-WorkflowTask-36ec4a57f09e67f	381tt27 □	Completed	Audio/Video Tr	anscoding	Feb 05, 2025 08:06:53 (UTC+08:00)		Feb 05, 2025 08:07:06 (UT	C+08:00)	View details Restart End Play source
Total items: 2	2614								10 v / pa	ge H 4 1 / 262 pages

Method 2: Calling the API for Processing

Step 1: Initiating a VOD Quality Inspection Task

To initiate a processing task for video URLs or media files in COS, see ProcessMedia in API Documentation. Request example:

```
POST / HTTP/1.1
Host: mps.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ProcessMedia
{
  "InputInfo": {
    "Type": "COS",
    "CosInputInfo": {
      "Bucket": "test-<appid>",
      "Region": "ap-shanghai",
      "Object": "/video/test.mp4"
    }
  },
  "AiQualityControlTask": {
    "Definition": 10
  }
}
```

Example description:

1. Type can be set to COS or URL. Fill in the source file path based on the Type value.

2. Definition indicates the ID of the template configured in the task. Templates are created by calling CreateQualityControlTemplate.

Response example:

```
}
"Response": {
    "TaskId": "26000002-ScheduleTask-8c0bb3a13e10462fc405262c623aeff4tt7"
}
}
```

Example description: TaskId indicates the unique ID of the task, which is used to query and manage tasks.

Step 2: Querying the Task Details

You can query the execution status and detailed result of a task by task ID. For more information, see DescribeTaskDetail in API Documentation.

Request example:

```
POST / HTTP/1.1
Host: mps.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeTaskDetail
{
    "TaskId": "26000002-ScheduleTask-8c0bb3a13e10462fc405262c623aeff4tt7"
}
```

Response example:

```
],
        "ContainerDiagnoseResultSet": [
          {
            "Category": "StreamAbnormalCharacteristics",
            "DateTimeSet": [],
            "SeverityLevel": "Warning",
            "TimestampSet": [
              11.006
            ],
            "Type": "AudioDuplicatedFrame"
          }
        ],
        "QualityEvaluationScore": 68
      }
    }
  }
}
```

Scenario 2: Live Stream Quality Inspection

Method 1: Initiating a Task in the Console

Step 1: Creating Live Stream Orchestration

1. Log in to the MPS console, click Create Live Orchestration, and add the Media Quality Inspection node in the Actions field.

Dichestration	live
name *	Max 128 characters; supports Chinese characters, letters, digits, underscores, and hyphens.
Output bucket *	Guangzhou 🔻
Dutput directory	
	Must start and end with /
lctions *	Click to add a feature node
	Input - Output
	Live recording
	Live recording Media Quality Inspection

2. After the node is added, a new page pops up. Select a predefined system template or create a custom template based on the actual business scenario on this page. Then, save the settings.

🕗 Tencent Cloud	
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Select template	Create Custom Te	emplate 🗹				
Select template *	40-Picture Quality Dete	ection Select				
	Quality Score	Disabled				
	Quality Detection	Mosaic Detection Screen Glit	ch Detection. Blur Dete	ection Jitter Detection	loise Detection OR Code I	Detection. Barcode
)	Detection, Mini Program Cod Overexposure Detection, Mu	e Detection、Solid Cold te Detection、Bass Dete	or Screen Detection、Black ection、Audio Distortion D	and White Edge Detection, etection	Low Light Detecti
	Format Diagnosis	Disabled				

4. Return to the live stream orchestration list after the orchestration is created, and find the newly created orchestration in the list.



Live Orchestration			
Create Live Orchestration			Enter an orchestrati
Orchestration name/ID	Output bucket	Creation time	Operation
live 20858	ap-guangzhou	Jan 15, 2025 10:36:11 (UTC+08:00)	View Details Edit Delete
Total items: 1		10 - 7	bage H 4 1 /1 page >

Step 2: Creating a Live Stream Quality Inspection Task

Go to the Live Processing Tasks page, click **Create task**, enter the live stream address to be processed on the task creation page, select the live stream orchestration created in the previous step, complete other information as needed, and click **Create** to complete the creation.

Specify In	put File										
Live stream address	* Enter	a live stream addres:	5								
2 Process In	put Files	;									
Create Orchestra	ation	Select Existing Orch	nestration								
Select Existing Orche	estration *	20858 - live					Select				
			Input		Q	Media Qual	ity In:	· · · · · ·		tput	· · · ·
nable event notifica	ations										
3 Specify Ou	itput Pat	th									
Dutput Save Path *	- [a					Select					
	The priorit	ty order of output pa , if this path is differe	ths is the customi ent from the outpu	zed output path o	of each feature d in the selected	node in orche d orchestration	stration > this , this path will	output path >	the output pat default outpu	h configured in or path for this task	chestratio

Step 3: Managing Live Stream Quality Inspection Tasks

Quality inspection tasks can be viewed on the Live Processing Tasks page.

Method 2: Calling the API for Processing

Step 1: Initiating a Live Stream Quality Inspection Task

To initiate a live stream processing task, see ProcessLiveStream in API Documentation.

Request example:

```
POST / HTTP/1.1
Host: mps.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ProcessLiveStream
{
    "Url": "rtmp://tlivecloud.com/live/test",
    "TaskNotifyConfig": {
        "NotifyType": "URL",
        "NotifyUrl": "http://tlivecloud.com/callback"
    },
    "AiQualityControlTask": {
        "Definition": 10
    }
}
```

Example description:

1. Url indicates the live stream address.

2. TaskNotifyConfig indicates the callback service address. When an issue is detected in the video stream, the issue information will be sent to this address in real time.

Response example:

```
}
"Response": {
    "TaskId": "24000002-live-procedure-813dc41e6fdc22dcf24aa6e9c61cp92"
}
```

Example description: TaskId indicates the unique ID of the task, which is used to query and manage tasks.

Step 2: Parsing Live Stream Notifications and Performing Callback for Issues

After a message is received, the content of an MPS live stream processing event notification is parsed from the msgBody field in the message. For details, see ParseLiveStreamProcessNotification.

If TaskNotifyConfig is set when a live stream quality inspection task is initiated, the information on detected live stream issues detected will be sent to the configured address in real time.

Callback request example:

```
POST / HTTP/1.1
Content-Type: application/json
```

```
{
  "NotificationType": "AiQualityControlResult",
 "TaskId": "24000002-procedure-live-813dc41e6fdc22dcf24aa6e9c61cp92",
 "AiQualityControlResultInfo": {
    "QualityControlResultSet": [
     {
        "Type": "BackWhiteEdge",
        "QualityControlItems": [
          {
            "Confidence": 100,
            "StartTimeOffset": 12,
            "EndTimeOffset": 12
          }
        ]
      }
   ],
    "DiagnoseResultSet": [
     {
        "Category": "StreamStatusException",
        "Type": "StreamOpenFailed",
        "Timestamp": 0,
        "Description": "Open url failed.",
        "DateTime": "2023-11-06T06:37:28Z",
        "SeverityLevel": "Fatal"
      }
   ]
 }
}
```

Example description: QualityControlResultSet indicates the information on issues detected through content quality inspections. DiagnoseResultSet indicates the information on issues detected through format diagnosis.

MPS Live Stream Recording integration

Last updated : 2023-10-09 12:45:56

With Media Processing Service (MPS), you can record live streaming content by URL.

Directions

1. On the Live Recording Templates page, create a new live recording template. The console provides a default recording template.

Template name	Enter a template name
	Supports Chinese characters, letters, digits, and
Template Description	Describe the template
	Supports Chinese characters, letters, digits, and
TS segment duration	30 seconds
	Value range: 5-30 seconds
Max recording duration	60 min
	Value range: 10-720 minutes. If this period elapses, a new recording file will be generated.

2. On the Live Schemes page, create a new scheme. On this page, you need to select a COS bucket and specify a directory for the output. In actions diagram below, click and add a "Live Recording" step.

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Scheme name										
	Max 128 characters; supports Chir	inese cha	aracters, letters, dig	ts, underscore	es, and hy	phens.				
Output bucket	Select region	•	Select Bucket		•					
	You don't have any buckets yet. Pl	Please go	to the COS consol	to create	one.					
Outrud Directory										
Output Directory										
	Must start and end with /									
Enable event notifications	Must start and end with /									
Enable event notifications Actions	Must start and end with /									
Enable event notifications Actions	Must start and end with /									
Enable event notifications Actions	Must start and end with /		€	Output					· · · · · · · · · · · · · · · · · · ·	
Enable event notifications Actions	Must start and end with /		+	Output					· · · · · · · · · · · · · · · · · · ·	
Enable event notifications Actions	Must start and end with /		+ Live recording	Output					· · · · · · · · · · · · · · · · · · ·	
Enable event notifications Actions	Must start and end with /		+ Live recording	Output					· · · · · · · · · · · · · · · · · · ·	
Enable event notifications Actions	Must start and end with /		+ Live recording	Output					· · · · · · · · · · · · · · · · · · ·	
Enable event notifications Actions	Must start and end with /		+ Live recording	Output						
Enable event notifications Actions	Must start and end with /		+ Live recording	Output						

3. Click the edit button on the right side of the Live Recording step to perform detailed configuration.

			•		•	•	•	•						•	•	•	•		•								 •	•	•	•						•	•	•	•	•	•		
										1							_																						•				
				Inp	ut						-0	Ð	 		÷	-	3		Liv	/e I	rec	ord	lin	ľ	×		 		-	×.	-		0	utp	ut				•				
	_	_	-							1						_	_	-													_	-				_			1				

4. In the detailed configuration:

- (1) Select the recording template;
- (2) Select the output bucket;
- (3) Edit the output path. The path of the output file, which can be relative or absolute.

Live record	ing	×
Recording te	mplate	
Template Type	Live recording	
Recording temp	late Select	
Recording ou	utput	
Output bucket	You haven't selected a bucket	
	If no bucket is selected here, the output bucket specified for the scheme will be used.	
Output Path	{taskId}/{rand}/{streamId}_record_{definition}.m3u8	
	The path of the output file, which can be relative or absolute. The default is the relative path {taskId}/{rand}/{streamId}_record_{definition}.m3u8. For the meaning of each field, see Filename Variable 2.	
Save	Cancel	

Note:

Please note that removing the random field {rand} from the path may cause a file to be overwritten by a different file with identical field values.

5. After completing the above information, click "Create" to establish a live scheme.

6. Go to Live tasks management page and create a new task. Enter the live streaming address that needs to be recorded and select the scheme. Click "Create Task".

Note:

Please make sure that the live streaming address is filled correctly. If the live streaming fails to be pulled, it will be retried 3 times. If the live streaming still cannot be obtained, the recording task will fail.

Terminal SDK integration

Last updated : 2024-10-15 12:06:40

The terminal SDK is a suite of audio and video terminal product capabilities launched by Tencent Cloud. It encompasses three types of SDKs for video encoding, audio enhancement, and video enhancement. Tailored to meet diverse customer needs, it supports access from multiple terminals such as mobile, web, and PC.



Terminal Video Codec SDK

Tencent's Top Speed Codec (TSC) terminal video encoder is designed for scenarios requiring low computational power, low latency, and high-quality image on the terminal side. Compared with hardware encoding, its advantages include:

1. Stable, reliable, and quick to start.

2. At the same quality level, it saves bitrate, enhances transmission stability, reduces downlink distribution bandwidth, and saves on storage costs.

3. At the same bitrate, it improves image quality and enhances user experience.

4. A rich set of features meets diverse business needs, such as using Regions of Interest (ROI) encoding to improve the image quality in the face region and dynamically adjusting encoding configuration to adapt to network fluctuations. For details, see TSC Terminal Video Codec SDK.

Terminal Audio SDK
The client audio SDK provides audio encoding and enhancement capabilities. It achieves effects including adaptive noise suppression, acoustic echo cancellation, and automatic gain control, significantly improving audio quality by eliminating echo and noise.

For details, see TSC Terminal Audio SDK.

Terminal Enhancement SDK

The client enhancement SDK, based on efficient image processing algorithms and AI model inference capabilities, achieves terminal video super-resolution, image quality enhancement, frame interpolation, and other features. For details, see TSC Terminal Enhancement SDK.

TSC Terminal Video Codec SDK

Product Overview

Compared with Video on Demand (VOD) and Cloud Streaming Services (CSS) encoding, terminal-side encoding requires different solutions.

Encoding Mode	VOD	CSS	Terminal-side Codec
Typical Business	WeTV, video account, and other mainstream on-demand services	Video account live streaming, Tencent sports live streaming, and other mainstream live streaming services	VooV Meeting, WeChat video call, and 5G remote control services
Latency Requirements	Pursues an extreme compression rate, with no latency requirements.	Pursues a high compression rate, allowing second-level latency.	Pursues a high compression rate while requiring zero latency.
Real-Time Requirements	Pursues an extreme compression rate, with no real-time requirements.	Allows multi-frame average real-time under multi-threading.	Requires real-time encoding under single-threading.
Network Condition Constraints	Encoding process is unrelated to network status, with fixed encoding configuration.	Encoding process is unrelated to network status, with fixed encoding configuration.	Encoding process is strongly related to network status, requiring dynamic adjustment of encoding configuration based on network status.



Scenario Characteristics	1 -> N, no interaction	1 -> N, no interaction	N <-> N, strong interaction
Solution	Server-side encoding	Server-side encoding	Terminal-side encoding

Tencent's Top Speed Codec (TSC) terminal video encoder is designed for scenarios requiring low computational power, low latency, and high-quality image on the terminal side. Compared with hardware encoding, its advantages include:

1. Stable, reliable, and quick to start.

2. At the same quality level, it saves bitrate, enhances transmission stability, reduces downlink distribution bandwidth, and saves on storage costs.

3. At the same bitrate, it improves image quality and enhances user experience.

4. A rich set of features meets diverse business needs, such as using Regions of Interest (ROI) encoding to improve the image quality in the face region and dynamically adjusting encoding configuration to adapt to network fluctuations.

SDK Access Process



1. Evaluation and Trial: Customers provide system platform and demand information, and apply for product trial.

System platform: Android, iOS, Windows, macOS, etc.

Use cases: live streaming, VOD

Encoding specification: encoding format, resolution, frame rate, bitrate, latency requirements, etc.

Optimization objectives: bitrate savings, image quality enhancement, CPU savings, and respective assessment metrics (PSNR, SSIM, VMAF, etc)

2. Development and Integration: Integrate the beta version of the SDK into the app, for performance evaluation and custom optimization.

Based on customer effect evaluation results and specific business scenario needs, provide in-depth optimization support.

3. Launch and Release: Apply for a license, integrate the official version of the SDK with license authorization, and test and launch the app.

If the license is about to expire or has expired, you can apply for a license renewal.

SDK Integration

The video codec SDK is implemented in C/C++/Assembly, providing a unified C interface for various system platforms.

Android

• Provides ARMv7 and ARMv8 version dynamic libraries, and the application is integrated via NDK.

• Provides Java interface encapsulation. The interface is basically consistent with Android's hardware encoding MediaCodec, facilitating parallel replacement of MediaCodec.

iOS

Provides ARMv8 and x86_64 version XCFramework.

macOS

Provides ARMv8 and x86_64 version framework.

Windows

Provides x86 and x86_64 version dynamic libraries.

Basic Video Encoding Process





TSC Terminal Audio SDK

Product Overview

The client audio SDK provides audio encoding and enhancement capabilities, significantly improving audio quality by eliminating echo and noise.

Details of features for each edition are as follows:

Feature Point	Standard Edition	Professional Edition	Premium Edition
Acoustic Echo Cancellation	Supported	Supported	Supported
Automatic Gain Control	Supported	Supported	Supported
Adaptive Noise Suppression	Supported	Supported	Supported
Echo Cancellation Music Mode	-	Supported	Supported
Volume Equalization	-	Supported	Supported
AI Intelligent Noise Reduction	-	Supported	Supported
Audio Encoding	-	-	Supported
AI Codec	-	-	Supported

Real-Time Communication Audio 3A

Audio 3A technology is a set of basic features in sound signal processing, commonly used in real-time communication systems such as video conferencing, calls, and live microphone connections, to ensure high-quality audio signal transmission, and provide better communication quality and audio listening experience. 3A stands for Adaptive Noise Suppression (ANS), Acoustic Echo Cancellation (AEC), and Automatic Gain Control (AGC).



ANS

The main feature of ANS is to eliminate the background noise components in the voice signal, reduce interference, and therefore improve speech intelligibility and perceptual quality. Based on the additive noise model assumption, the audio signal captured by the microphone can be considered as a superposition of the pure voice signal and noise interference. By tracking and estimating noise in non-voice segments of the audio, and then subtracting the noise component energy in the voice segments, a clearer voice signal can be obtained.

AEC

AEC mainly addresses the echo problem in audio communication. During a call, the sound played by the speaker is directly captured by the microphone or captured after reflection, causing the remote user to hear their own voice. This can seriously affect call quality. AEC technology can process the near-end signal based on the remote reference signal, effectively eliminating or reducing this echo phenomenon, thereby enhancing the call experience. AGC

AGC is responsible for adjusting the volume during the transmission of audio signals. When the volume of the sound source is too low or too high, it can significantly affect the call experience. AGC can automatically detect the loudness of the audio stream and dynamically adjust the volume level to keep it within a comfortable range. AGC can alleviate the volume instability caused by factors such as differences in recording device collection, speaker volume, and distance.

Use Cases

The SDK can be applied in the preprocessing of audio encoding in uplink push and the post-processing of audio decoding in downlink pull, to enhance sound quality. Currently, it supports Android, iOS, Windows, and macOS clients.



Online teaching scenario: Eliminating noise and echo enhances the clarity of sound during the teaching process. In-game voice scenario: Equalizing loud and soft voices improves player listening experience and game experience. Live streaming scenario: Anchor voice noise reduction and voice gain control improve the overall live streaming quality in voice chat, song rooms, and similar scenarios.

SDK API Calling Process





TSC Terminal Enhancement SDK

Product Overview

The client enhancement SDK, based on efficient image processing algorithms and AI model inference capabilities,

achieves terminal video super-resolution, image quality enhancement, frame interpolation, and other features.

Details of features for each edition are as follows:

Feature Point	Standard Edition	Professional Edition	Premium Edition
---------------	------------------	----------------------	-----------------



Standard super-resolutionSupportedSupportedSupportedStandard super- resolution+Enhancement parameters (Contrast/Color/Brightness)SupportedSupportedSupportedProfessional super- resolution-SupportedSupportedSupportedAl image quality enhancement-SupportedSupportedSupportedOf frame interpolation enhancementSupportedSupported				
Standard super- resolution+Enhancement parameters (Contrast/Color/Brightness)SupportedSupportedSupportedProfessional super- resolutionSupportedSupportedAl image quality enhancementSupportedSupportedAl frame interpolation enhancementSupported	Standard super-resolution	Supported	Supported	Supported
Professional super- resolution-SupportedSupportedAl image quality enhancement-SupportedSupportedAl frame interpolation enhancementSupported	Standard super- resolution+Enhancement parameters (Contrast/Color/Brightness)	Supported	Supported	Supported
AI image quality enhancement-SupportedSupportedAI frame interpolation enhancementSupported	Professional super- resolution	-	Supported	Supported
Al frame interpolation enhancement - Supported	AI image quality enhancement	-	Supported	Supported
	AI frame interpolation enhancement	-	-	Supported





The advantage of the Standard Edition is the performance, with our algorithms achieving good super-resolution effects at minimal time and energy consumption. It is compatible with almost all mobile phones of different performances. Additionally, the Standard Edition offers image enhancement features, which can adjust image brightness, color saturation, and contrast.

The advantage of the Professional Edition is the effect. Using AI model inference, it can regenerate missing texture details in the original image, achieving the best image enhancement and super-resolution effects. The Professional Edition requires computational power of the device and is recommended for use on mid to high-end mobile phones.

Performance

Standard super-resolution

System	Device Model	Device Configuration	Basic Super- Resolution Parameter	CPU (%)	Memory (MB)	Frame Rate	GPU (%)	Power Consum (mAh)
Android	HUAWEI	Chip:	720P - Off	2.8	48	59.9	5	138.01
	(2022) 8	Snapdragon 8+ Gen1 CPU: 3.0	720P x 1.5	3	64	60.4	10	196.55
	GHz GPU: Adreno 730 Battery: 4272.8 mAh	576P x 1.25	3	60.1	59.9	7	/	
		4K x 1.25	3	163.2	59.9	46.4	/	



		Chip:	720P - Off	1	135.9	59.1	4	133.78
Android	Sony Xperia 5	Snapdragon 865 CPU: 2.84	720P x 1.5	2	146.8	59.2	10	152.41
Anaroia	II (2020)	GPU: Adreno 650	576P x 1.25	2	139.2	59.2	6	/
		3104 mAh	4K x 1.25	2	311.2	59.2	46.7	/
Android	Xiaomi 6 (2017)	Chip: Snapdragon 835 CPU: 2.45 GHz GPU: Adreno 540	720P x 1.5	2.9	119	60	18.9	/
Android	Redmi Note 4 (2016)	Chip: MediaTek MT6797 Helio X20 CPU: MT6797 2.0 GHz GPU: ARM Mali-T880	720P x 1.5	9.4	137.9	60.6	74.5	/
Android Honor 8 Youth Edition (2016, budget phone)	Chip: HiSilicon Kirin 655 CPU:	720P - Off	2	77	58.8	Not supported	/	
	HI6250 2.3 GHz GPU: ARM Mali-T830	720P x 1.5	2	83.4	58.1	Not supported	/	
		CPU: 3.23	720P - Off	5.9	54.4	59.5	15.9	64.99
iOS	iPhone	GHz GPU: quad-	720P x 1.5	6	63.8	59.5	24	88.29
	(2021)	Battery: 3065.65	576P x 1.25	4.7	57.3	59.5	18.9	/
		mAn	4K x 1.25	9.2	162.2	59.5	60.6	/



iOS	iPhone	CPU: Apple	720P - Off	13	40.5	59.5	22.8	/
	(2014)	GPU: PowerVR GT7600	720P x 1.5	18.8	49.4	59.6	50.2	/

Professional super-resolution

System	Device Model	Device Configuration	Professional Super- Resolution Parameter	CPU (%)	Memory (MB)	Frame Rate	GPU (%)	Power Consumptio (mAh)
		Chip: Snapdragon	720P - Off	3	66	60	3	138.01
A se studiet	HUAWEI	8+ Gen1 CPU: 3.0	720P x 1.5	13	123	48	10	342.9
Android	Mate50 (2022)	GPU: Adreno 730	576P x 1.25	13	105	60	7	333.13
	E	Battery: 4272.8 mAh	540P x 2	13	105	60	11	322.73
		Chip: Snapdragon	720P - Off	1	142	59.1	3	133.78
Sony Xperia 5	865 CPU: 2.84	720P x 1.5	13	196	39	8	294.06	
Android	Android II (2020)	20) GHz GPU: Adreno 650 Battery: 3104 mAh	576P x 1.25	13	148	58	8	/
			540P x 2	13	159	40	7	/
		CPU: 3.23	720P - Off	6	73	60	14	64.99
iOS	iPhone	GPU: quad-	720P x 1.5	15	94	40	14	/
103	(2021)	Battery:	576P x 1.25	10	84	60	16	/
		mAh	540P x 2	9	76	60	21	/

AI image quality enhancement

Configuration Enhancement (%) (MB) Rate (*	
	(%)



			Resolution				
		Chip: Snapdragon 8+	720P	13	140	55	7
Android	HUAWEI Mate50 (2022)	CPU: 3.0 GHz GPU: Adreno	576P	13	126	74	5
	Battery: 4272.8 mAh	Battery: 4272.8 mAh	540P	13	130	78	7
		Chip: Snapdragon 865	720P	13	184	41	5
Sony Xperia Android 5 II (2020)	Sony Xperia 5 II (2020)	CPU: 2.84 GHz GPU: Adreno	576P	13	174	59	5
		Battery: 3104 mAh	540P	13	142	43	4
		CPU: 3.23 GHz	720P	17	91	40	11
iOS	iPhone 13 (2021)	GPU: quad-core Battery: 3065.65	576P	12	70	60	11
		mAh	540P	9	68	60	11

Use Cases

1. Enhance terminal players to improve video playback quality and smoothness.



2. Save costs by reducing the resolution and bitrate of video distribution, and then minimize experience loss through terminal playback enhancement.



For example, in cloud gaming scenarios, the capability of real-time video super-resolution on the terminal can reduce the computational power of cloud rendering and encoding, save transmission bandwidth, and save costs. In the following example, a game scene transmitted from the cloud at 720P (5.6Mbps) is up-scaled to 1080P in real-time on the terminal. The viewing effect is close to a scene transmitted directly at 1080P (8.2Mbps) from the cloud, saving 30% of bandwidth.

SDK Integration

Compatibility

Android platform: Applicable to Android 5.0 and later (API 21, OpenGL ES 3.1). iOS platform: Applicable to iPhone 5s and later versions of devices, with the minimum system version being iOS 12.

Package Size

Standard Edition: Android AAR is approximately 0.3 MB (arm64-v8a), and iOS Framework is approximately 0.4 MB. Professional Edition: Android AAR is approximately 2.1 MB (Single arm64-v8a architecture), and iOS Framework is approximately 1.9 MB.

Integration Guide

Please refer to the Android and iOS integration guides.

DRM integration

Last updated : 2025-03-17 15:18:55

over playback frequency and device binding;

Overview

Digital Rights Management (DRM) is a system designed to protect the copyright of digital content through the application of encryption and authorization verification techniques. Its primary functions include: Content Encryption: Encrypting audio, video, and other digital content to prevent unauthorized distribution; Permission Control: Implementing granular permission management through license management, including control

Secure Transmission: Ensuring the integrity of content during the distribution process.

Media Processing Services (MPS) offers video-on-demand encryption services based on DRM encryption protocols such as Widevine, FairPlay, and PlayReady. By integrating standardized encryption technology with third-party Key Management Systems (e.g., SDMC, DRMtoday, etc.) in depth, it achieves decoupling of content encryption and key management, comprehensively ensuring the security of user content. The DRM encryption services provided by Media Processing focus on content security processing, while key generation, storage, distribution, and license management are provided by third-party DRM service vendors.

The following will illustrate the process of integrating Media Processing's DRM encryption services using DRMtoday as an example.

Integration Process

Preparation

Activate and configure a third-party DRM service, taking DRMtoday as an example.

Step One: Register for the Service

1. Navigate to the official website of DRMtoday Provider. DRMtoday provides a free trial and commercial service purchasing instructions on its website.

2. Click Get your FREE trial today for the trial.

) castLabs	DASHBOARD	Sign in 💄
Sign up		
	Create your free castLabs account to access our solutions and trials.	
	Name *	
	This field may not be blank.	
	Company email *	
	Please enter your company email as accounts are for business users.	
	How did you hear about us?	
	Other ~	
	Are you a human?	
	Please select the correct icon that matches the grey silhouette in the box on the right.	
	By creating an account, you accept the <u>Terms & conditions</u> and understand that our <u>Privacy policy</u> clarifies how we use your personal data.	
	Sign up ≻	
	Already have an account? Sign in here.	

3. Users must register with a corporate email and create an organization to access the next page.

\varTheta rannpengilitencent.com 🌲	=		DRMTODAY - DASHBOARD	PROD CastLabs
	D	ashboard		
DRMtoday 🗸 🗸				
Overview		elcome: rourie currently managing 🕁 rencent.		
	0	Want to stay informed about new releases and important updates?	Subscribe to our status page 12	
Assets	0	Want to switch to a different organization? You can do so here.		
Deliveries				
Reports				
Ingest key				
Sub-organizations				
API and points				
Arrendpoints				
CONFIGURATION				
DRM settings				
Key seeds				
Ingest settings				
License delivery authorization				
Upfront token authorization				
Widevine CAS				
Documentation				
Status page				
Help Center				
Sign out 🕪				

Step Two: Service Configuration

- (1) Configure API Account
- 1. Select Members/Users from the left sidebar.

😝 ranspengittencent.com 🌲		=	DRMTODAY - MEMBERS & ROLES	PRO	▶ <mark>DeastLabs</mark>
organization / merchant		Members & roles			
DRMtoday V Overview	t.	View and manage 	nown as users) as well as Learn more 년	Reload C	
Assets Deliveries Reports Ingest key		Members (1) Active members can access the DRMtoday portal for this on member's roles can be viewed using the Manage link.	ganization (also known as a merchant). A	Add member +	
Sub-organizations Members / Users		ACHINA requergemention (Admin			Manage
API endpoints		These accounts can use the DRMtoday API but can't be used	d to access the DRMtoday portal.	Add API account +	
DRM settings Key seeds Ingest settings License delivery authorization		ROOTION CONTRACTOR CONTRACTOR CONTRACTOR		test	U Manage
Upfront token authorization Customer rights token Widevine CAS					
Documentation Status page Help Center Sign out @					

2. Click Add API account, select options as needed, ensure accuracy, and click Add member to confirm.

Note:

Upon successful saving, a password prompt will appear. Users are advised to securely store this password for future use.

🕒 rampengötarsent.com 🐥	Add API account
ORGANIZATION / MERCHANT	
tencent	
DRMtoday 🗸	You're about to add a new API account to # Tencent . Learn more 🖄
Overview	API accounts can't sign in, but can access DRMtoday features via the DRMtoday API.
Assets	
Deliveries	Ariaccourt sign in name *
Reports	eu//1252/1254035560/e0047/021/11: https://doi.org/10.01/11: https://do
Ingest key	
	mos
Sub-organizations	Optional description for your reference
Members / Users	Enabled I finds enabled, the API account work he able to use DPMtroday
API endpoints	
CONFIGURATION	Roles determine what actuals and innormation a memory has permission to access.
DRM settings	Manage members and member roles. (Previously called "Superuser")
Key seeds	Sub-organizations and add members. (Previously called Reseller sub-merchants manager)
Ingest settings	Configuration Change DRMtoday configuration Items.
License delivery authorization	Key ingest Ingest/add new content asset keys.
Upfront token authorization	Key delete Remove existing content asset keys.
Customer rights token	Assets View content assets.
Widevine CAS	Deliveries View license delivery logs and delivery reports.
	CAS ECMG Access the ECMG provisioning API for Widevine CAS.
Documentation	
Status page	
Help Center	• vicer submittening uns form, a generated password will be snown once, viease be prepared to secure a copy for your records.
	< Cancel Add member >
Sign out 🕪	

Go to left sidebar, choose **DRM settings**, input FairPlay certificate info, and click **Save Settings**.

eranzan eran eran eran eran eran eran eran er	DRM settings
🌐 Tencent 🛛 🔍	
DRMtoday 🗸	Configure DRM settings for the Apple FairPlay Streaming system here. Learn more 🖉
Overview	Other DRM systems don't require additional configuration.
Assets	Aurel - Fritzler Generation
Deliveries	Apple FairPlay Streaming
Reports	To use FairPlay Streaming, Apple requires that your organization first registers with them. You'll then receive the necessary details to enter here. Once
Ingest key	entered, FairPlay Streaming will be available to use. If you haven't done so already, you'll need to request a FairPlay Streaming deployment package 🖄 from Apple to get started. 🔀 lindeat cardificate and keve
Sub-organizations	• Opuace ce uniques and regis. 71-6. Burder Colling are provided for trading and a formation of the provided for
Members / Users	The following fields are provided by Apple as part of your deployment package.
API endpoints	Application secret key (ASK) *
CONFIGURATION	Paste the 32 character value here.
DRM settings	Provider certificate *
Key seeds	
Ingest settings	
License delivery authorization	
Upfront token authorization	Paste the X.509 certificate here.
Customer rights token	Provider private key*
Widevine CAS	XIIJQWIBADANB
Documentation	
Status page	Paste the key here.
Help Center	
Sign out 🕪	Default initialization vector (IV)
	This is used as the default value when ingesting FairPlay Streaming keys and a specific IV isn't provided.

(3) Configure the secret key "seed".

1. Select Key Seeds from the left sidebar.

😝 nampengétancent.com 🌲	=	DRMTODAY + KEY SEEDS	PROD DesseLabs
organization / werchant	Key seeds		
DRMtoday V Overview Assets	Add and manage key se When ingesting an asset, you o keys. This is useful, for exampl generate the same key when e use-cases such as SPEKE or th	eeds. can optionally specify a key seed when creating content encryption le, when using multiple packagers which rely on DRMtoday to encrypting the same content. Key seeds are also required for certain e Harmonic API. Learn more㎡	Add seed +
Reports Ingest key	Seeds (2)	KEY DERIVATION A LEGORITHM	
Sub-organizations Members / Users API endpoints	iv_test	DRMtoday key derivation V1 DRMtoday key derivation V1	Manage Manage
CONTIGURATION DRM Settings Kould conde			
Ingest settings License delivery authorization			
Customer rights token Widevine CAS			
Documentation Status page Help Center			
Sign out G+			

2. Click on **Add seed**, you can generate a random seed by clicking **Random**. Two seeds need to be generated: one for the Key seed and another for the IV seed.

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0 sampengitarcent.com	Ξ		DRMTODAY - MANAGE KEY SEED	PROD CastLabs
organization / merchant	A	dd key seed		
DRMtoday V	Adı bul	d a new key seed here. Once a key seed is t it can be disabled or deleted. Learn more	created it can't be modified, Ľ	
ssets eliveries eports gest key	Des © Er	scription *		
ub-organizations Aembers / Users .PI endpoints	Key DR 0 Tr Key	/ derivation algorithm * Mttoday key derivation V1 he algorithm determines the necessary key length. / seed * mto		v .
CONFIGURATION DRM settings Key seeds Ingest settings	не © 32 С	zx ~ 2 to 256 bytes = 64 to 512 hex digits. Suggested length: 64 bytes. Enabled If not enabled, the configuratio	ns that use this key seed won't be active. You can also enable this key seed late	r.
License delivery authorization Upfront token authorization Customer rights token Widevine CAS	0 A (Vter submitting this form, the key seed will not be accessible a Back	ggin. Please secure a copy for your records.	Add key seed >
Documentation Status page Help Center				
ign out 🕪		Contact us •	Privacy & cookie policy • Legal • ©2008-2025 castLabs • v3.83	

(4) Configuring CPIX

Note:



Due to the media processing service backend interacting with DRM vendors to retrieve key information via the CPIX protocol, it is necessary to configure CPIX.

1. Select Ingest Settings from the left sidebar.

🕽 ranspangilitanoant.com 🌲	≡		DRMTODAY + INGEST SETTINGS		PROD 🔰 c	astLabs
RGANIZATION / MERCHANT	1					
Tencent	Inge	est settings				
DRMtoday 🗸 🗸	Add ar	nd manage ingest settings for r	ackager integrations. Learn r	nore P.		
verview	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	na manage ingest settings for p				
	CPIX	(3)				
sets	CIIX	(5)				
teliveries	Configur MediaP∉	re CPIX ingest settings here, supporting ackage (SPEKE versions 1 and 2), Broadg	integrations with AWS Elemental Mec beak, Harmonic, Unified Streaming, et	liaConvert and c.	Add CPIX config +	
ports	10	DESCRIPTION *	KEY ROTATION	CLEARKEY		
jest key	Substeam	<pre> drm_nomapping</pre>		-	0	Manage
	2942079	c test (disabled)			0	Manage
-organizations	013+017	test1			0	Manage
nbers / Users	Click Ma	anage to access API endpoints and the d	lownload of the DRMtoday SPEKE ada	pter for AWS Media Services.		
'l endpoints			,			
	Wide	evine kev API				
DNFIGURATION	Configu	re credentials that are used for authent	ication of Widewine key API requests	This API supports		
(M settings	package	ers that work using the CENC API for Wid	devine to fetch encryption keys, such a	is Shaka packager.	Add Widevine config +	
seeds	ID	DESCRIPTION *	TYPE	INGEST USER		
est settings			No Widevine key API configural	ions added yet.		
ense delivery authorization	Circo etcu	ree in responses of the Wide inc. some	en ensemblen ADI een he velideted wi	h this public lours		
stomer rights token	Signatur	res in responses of the widevine commi	on encryption API can be validated Wi	n <u>tris public key</u> ⊎.		
stomer rights token	Harn	nonic KMC				
idevite CAS	Haili					
ocumentation	Configur integrati	re Harmonic KMS ingest settings here. N ion requires otherwise.	New Harmonic integrations should use	e CPIX, unless	Add Harmonic config +	
us page	ID	DESCRIPTION *	INGEST USER KI	Y ROTATION	CLEARKEY	
p Center			No Harmonic KMS configurati	ons added yet.		
gn out 🕩						

2. Click on **Add CPIX config**, where the Key seed and Initialization vector (IV) seed are the seeds configured in the aforementioned step (3). The Stream type mapping and the four options below can be selected according to business needs to determine the appropriate key generation rules.

🖯 sampengitercent.com 🌲	=	DRMTODAY + MANAGE CPIX INGEST	CONFIGURATION	PROD CastLabs
ORGANIZATION / MERCHANT	Add CPIX in	gest configuration		
DRMtoday V Overview	CPIX key ingest cor AWS Elemental Me Broadpeak, Harmo	nfigurations are used for various packager diaConvert and MediaPackage (SPEKE ver Inic, Unified Streaming, etc. Learn more 🗗	integrations: sions 1 and 2),	
Deliveries Reports Ingest key	Description *	r reference.		
Sub-organizations	Key seed *		Initialization vector (IV) seed *	
Members / Users	53/166c9 - seed_test	v	dishtilikuli - iv_test	~
API endpoints	Used for key derivation.		Used for IV derivation.	
CONFIGURATION	Stream type mapping			
DRM settings	None			~
Key seeds	Used to map stream types	to CPIX content keys usage rules, CPIX generator API only.		
Ingest settings	Key rotation	Configure key rotation.		
License delivery authorization	Allow ClearKey	Enables unencrypted delivery of ingested keys. Lea	arn more 🖉	
Upfront token authorization	Preserve input Key ID	Please enable only in edge cases as described in the	e documentation. Ignored for SPEKE v1.	
Customer rights token Widevine CAS	Enabled	Ingest settings will only be active when enabled. Yo	ou can enable or disable this at any time.	
Documentation Status page Help Center	< Cancel		(Add configuration >
Sign out 🕪				
		Contact us • Privacy & cookie policy	• Legal • ©2008–2025 castLabs • v3.83	

(5) Configuring Certificate Authentication

Navigate to the **License Delivery Authorization** in the left sidebar, where users can select the appropriate certificate authentication method based on the requirements.

O rampergijtensent.com	=	DRMTODAY	PROD
ORGANIZATION / MERCHANT	License delivery authorization		
DRMtoday 🗸 🗸	Authorization Caliback certificates Test		
Overview	Defaults Upfront + caliback	Default settings	
Assets	Override authorization settings for certain DRM systems	O bery all requests O Autorization callback UR. O Lifetime strategies that the second	
Deliveries Reports		Quertoria aductivation with callback URL as fallback Allow all requests	
Ingest key		O Text durmy Authorization callback method *	
Sub-organizations		[SON POST request (recommended)	
Members / Users API endpoints		Please make sure your integration accepts new fields in the JSON body of the caliback request. See our documentation for details.	
		Automatauton elitikak vitu. * Migoritik Jasoff Hong convustiti	
DRM settings	* Required fields are marked with an asterisk.		
Key seeds Ingest settings	Save changes Reset		
License delivery authorization			
Upfront token authorization Customer rights token			
Widevine CAS			
Documentation			
Status page Help Center			
Sign out 🕪			

Step Three: Generating the Key Request URL

To retrieve key information, users must set up a key request URL for the media processing service. This URL enables the service to request keys from the DRM vendor. After the DRM vendor authenticates the request, it sends back the keys in CPIX format. The media service uses these keys to decrypt media. For instructions on creating a key request URL, see the DRMtoday documentation. A script for generating this URL is provided for reference.

```
#!/bin/bash
# First request to get ticket
TICKET_RESPONSE=$(curl 'https://auth.drmtoday.com/cas/v1/tickets' \\
  -d "username=<API account>&password=<API account password>" \\
  -s -D -)
# Extract location header if status is 201
if echo "$TICKET_RESPONSE" | grep -q "HTTP.*201"; then
    TICKET_URL=$ (echo "$TICKET_RESPONSE" | grep -i "Location:" | cut -d' ' -f2 | tr
    # Second request using the ticket URL
    TICKET=$(curl "$TICKET_URL" \\
      -d 'service=https://fe.drmtoday.com/frontend/cpix/v1/<Organization UUID>/inge
else
    echo "Failed to get ticket. Status code was not 201"
    echo "$TICKET RESPONSE"
    exit 1
fi
```

Concatenate the service URL with the ticket SERVICE_URL="https://fe.drmtoday.com/frontend/cpix/v1/<Organization UUID>/ingest/<C echo \$SERVICE_URL

(1) API account

Select **Members/Users** from the left sidebar. The API account mentioned in the script refers to the API account configured in Step 2, and the "API account password" corresponds to its password.

O sanspeng@iencent.com	Ξ	DRMTODAY - MEMBERS & ROLES	PROD DicastLaðs
organization / merchant	Men	nbers & roles	
DRMtoday V Overview	View ar their ro	nd manage ⊕ Tencent members (also known as users) as well as ales. You can also manage API accounts. Learn more ピ	Reload C
Assets Deliveries Reports Ingest key	Mem Active m member	bers (1) embers can access the DRMtoday portal for this organization (also known as a merchant). A s roles can be viewed using the Manage link.	Add member +
Sub-organizations Members / Users	API a	ccounts (1)	. U Mange
API endpoints	These ac	counts can use the DRMtoday API but can't be used to access the DRMtoday portal.	Add API account +
DRM settings Key seeds	165e400	ex671x3277354c8530887x80070x52715zwmpeng	test 🔘 Manage
Ingest settings License delivery authorization			
Upfront token authorization Customer rights token Widevine CAS			
Documentation			
Help Center			
Sign out 🕪		Contact us • Privacy & cookle policy • Legal • ©2008-2025 castLabs	• v3.83

(2) Organization UUID

Select **API endpoints** from the sidebar on the left. The Organization UUID is displayed in the top right corner of the page.

\varTheta rampergittensent.com 🌲			DRMTODAY » API ENDPOINTS	PROD DenstLab
Acanization / Meschant T	API endpo	oint	S	
DRMtoday V Overview S)	'arious API enc ystem.	ipoints	s are available for DRMtoday to interact with your	ORGANIZATION Tencent ORGANIZATION APT NAME
Assets th	ne organization's (a	ilso kno	wn as a merchant) API name or UUID for identification.	eab71e32f7254d92968/%e8097cd2f7f0
Deliveries P Reports Pi	lease visit the docu ayloads. If you're le	imentat ooking ti	ion links below for details on specific requests such as their response o create or manage API accounts, visit the <u>Members</u> area.	06641124100 UUD #511171-6544-4585-8515-3526488465325 C
Ingest key K	(ey manage	emer	ıt	
Le Le	earn more about t	ne key n	nanagement API and packager integrations for these endpoints.	
ver endpoints	DPERATION	METHOD	ENDPOINT	
	ngest key	POST	https://fe.drmtoday.com/frontend/api/keys/v3/ingest/ailie011110000000000000000000000000000000	H1.4077?ticket=[ticket]©
Infiguration	Remove key	POST	https://fe.drmtoday.com/frontend/api/keys/v3/remove/emilia in the intervention of the	#flog]f?ficket=[ticket]⊘
RM settings	Query metadata	POST	https://fe.drmtoday.com/trontend/download-api/ingestion/query/vl/keys/mbocfj [ticket]©	rn 8844-1581-1529-211048982115/query?ticket=
ey seeds	Download metadata	GET	https://fe.drmtoday.com/frontend/download-api/ingestion/query/v1/keys/dhccff [ticket] $_{\odot}$	194-10844-4546-8529-232440046325/download?ticket=
cense delivery authorization	PIX			
ofront token authorization o	DPERATION	METHOD	ENDPOINT	
stomer rights token P	Process document	POST	https://fe.drmtoday.com/frontend/cpix/v1/amacTITE-amad-line-amat-II-212+40400	WW/ingest/[config]©
devine CAS	Generate document	GET	https://fe.drmtoday.com/frontend/cpix/v1/cmini14-amed-face-mc1-ince-face-	WM/ingest/[config]/[asset]@
H	Harmonic	POST	https://[api-account]:[password]@fe.drmtoday.com/frontend/cpix/v1/1H	WHH HIM HIGT COMMITTEER (config) D
rocumentation Re	eplace :: with %2F	in [api	-account]. See Ingest settings for details on endpoints and other integrations.	
tain Contor				
C	onfiguratio	on		
Sign out 6+	earn more about t	ne vario	us [operation] endpoints available through the configuration API.	
•	OPERATION N	Internet	ENDPOINT	
	Configuration	epend	https://fe.drmtoday.com/frontend/rest/config/v1/mbc/llfm_blass_states_201	<pre>image: [operation]?ticket=[ticket] 0</pre>

(3) CPIX ID

Select **Ingest Settings** from the left sidebar, where you can view the CPIX information created in Step Two. The ID of the CPIX config is the CPIX ID required in the script.

ranspeng@tencent.com 🔔	Ξ		DRMTODAY > INGEST SETTINGS		PROD	castLab
NIZATION / MERCHANT Fencent	Ir	ngest settings				
Mtoday v	Ad	ld and manage ingest settings for pac	kager integrations. Learn more ₪	р 1		
	CI	PIX (3)				
.5	Col	nfigure CPIX ingest settings here, supporting int	egrations with AWS Elemental MediaConve	ert and		
es	Me	ediaPackage (SPEKE versions 1 and 2), Broadpea	k, Harmonic, Unified Streaming, etc.		Add CPIX config +	
S	ID	DESCRIPTION *	KEY ROTATION	CLEARKEY		
cey	91	Bebeic: drm_nomapping	-	-	(Manage
	31	test (disabled)				Manage
nizations	ai	Barkilla test1	-	-	(Manage
ers / Users	Clic	ck Manage to access API endpoints and the dow	nload of the DRMtoday SPEKE adapter for	AWS Media Services.		
endpoints						
	W	/idevine key API				
ettings	Col	nfigure credentials that are used for authenticat	tion of Widevine key API requests. This API	supports		
ds	pao	ckagers that work using the CENC API for Widevi	ine to fetch encryption keys, such as Shaka	a packager.	Add Widevine config +	
ttings	ID	DESCRIPTION *	TYPE	INGEST USER		
livery authorization			No Widevine key API configurations add	led yet.		
oken authorization	Sig	natures in responses of the Widevine common	encryption API can be validated with this n	ublic kevra.		
ner rights token	-18			<u> </u>		
ne CAS	H	armonic KMS				
mentation	Coi inte	nfigure Harmonic KMS ingest settings here. New egration requires otherwise.	v Harmonic integrations should use CPIX, u	Inless	Add Harmonic config +	
age	ID	DESCRIPTION *	IGEST USER KEY ROTATIO	N	CLEARKEY	
enter			No Harmonic KMS configurations adde	ed yet.		
it 🕪						

After setting up the script correctly, you can start a request to get the secret key URL.

Note:

Remember: The URL expires, so it's recommended to regenerate it regularly.

Initiating Encryption Tasks via API

To initiate processing tasks for media files located in URL video links or within COS, please refer to the API documentation Initiating Media Processing.

```
POST / HTTP/1.1
Host: mps.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ProcessMedia
{
    "InputInfo": {
        "Type": "URL",
        "UrlInputInfo": {
            "Url": "https://test-<appid>.cos.ap-nanjing.myqcloud.com/mps_input/test
        }
    },
    "OutputStorage": {
        "Type": "COS",
        "CosOutputStorage": {
            "Region": "ap-nanjing",
```

```
"Bucket": "test-<appid>"
        }
    },
    "OutputDir": "/mps_output/drm/",
    "MediaProcessTask": {
        "AdaptiveDynamicStreamingTaskSet": [
             {
                 "Definition": <definition id>,
                 "DrmInfo": {
                     "Type": "widevine",
                     "SpekeDrm": {
                         "ResourceId": "test123",
                         "KeyServerUrl": "<DRM key server url>",
                         "Vector": "<IV>",
                         "EncryptionMethod": "cbcs",
                         "EncryptionPreset": "preset0"
                     }
                 }
            }
        1
    },
    "TaskNotifyConfig": {
        "NotifyType": "URL",
        "NotifyUrl": "<notify url>"
    }
}
```

Response Example:

```
{
    "Response": {
        "TaskId": "24000035-WorkflowTask-cf405e365e75efb2a7bfdef514cc17dbtt195964",
        "RequestId": "a7ba06b6-6810-4343-b55d-3afcc3dac64c"
    }
}
```

Example Description: TaskId serves as a unique task identifier, which can be utilized for querying and managing tasks.

Туре

Encryption types, permissible values include:

simpleaes: AES-128 encryption.

widevine.

fairplay: Supports HLS exclusively, DASH does not support Fairplay encryption.

playready.



SpekeDrm

(1) Resourceld

Resource tagging supports 1-128 characters, including numbers, letters, underscores (_), and hyphens (-). The Resourceld can be perceived as an ID for a set of cryptographic keys, which can be utilized to encrypt multiple distinct media streams. We can view all the Resourcelds we have created on the DRMtoday console.

O rempengiktencent.com	=					DRMTODAY						PROD
organization / merchant	Asset	ts										
DRMtoday 🗸 🗸	Key ID •	Search for ex	act key or asset ID Q Search R	eset C Refresh								
Overview		Flags	Y Asset ID	 Variant ID 	Key ID ~	Stream type ~	Key rotation ID 👻	Key seed ID	Ingest channel ~	Region ~	Ingested + ~	
			ranrpeng_somopplagt		642310430430343034530384	Audio			CPIX	ap-northeast-1	2025-02-14 10:57:24	
Assets			ranraeng_soesapplagt		CHC7015471305405292(3040164)[77367	SD			CPIX	ap-northeast-1	2025-02-14 10:57:24	
Deliveries			ranraeng_soesapd.sp		0000042702547709000023090023017	Audio			CPIX	ap-northeast-1	2025-02-14 10:52:20	
Reports			ranraeng_soesapplag		0644coa#114888c385cc852588a	SD			CPIX	ap-northeast-1	2025-02-14 10:52:20	
Ingest key			rangeng_456		30010020121030800000000000	Audio			CPIX	ap-northeast-1	2025-02-08 02:21:43	
			rangeng_456		forf84e346e6c82199e3ec964259e	Video			CPIX	ap-northeast-1	2025-02-08 02:21:43	
Sub-organizations			rangeng_122		513842352314713008314530469696	Audio			CPIX	ap-northeast-1	2025-02-07 06:25:14	
Members / Users			ranging_122		01513003co344001511538clockolock	Video			CPIX	ap-northeast-1	2025-02-07 06:25:14	
API endpoints												
CONFIGURATION												
DRM settings												
Key seeds												
Ingest settings												
License delivery authorization												
Upfront token authorization												
Customer rights token												
Widevine CAS												
Documentation												
Status page												
Help Center												
Sign out 🕪												

(2) KeyServerUrl

The key request URL is made in step three of the preparatory phase.

Note:

Different DRM providers have varying substream limits, with Pallycon allowing up to 5 and DRMtoday up to 9.

(3) Vector

Encryption Initialization Vector (32-byte string).

(4) EncryptionMethod

Encryption Method: By default, FairPlay uses cbcs, while PlayReady and Widevine default to cenc.

Please note that there are differences in the encryption methods supported by various DRM standards:

cbcs: Supported by PlayReady, Widevine, and FairPlay.

cenc: Supported by PlayReady and Widevine.

(5) EncryptionPreset

Rules for encrypting substreams, with the default being preset0. preset0: All substreams are encrypted using the same key. preset1: Each substream is encrypted using a different key.

Playback Verification

Playback can be referenced through the DRMtoday Player Official Documentation. Below, we illustrate how to play encrypted streams using the DRMtoday Official Player as an example.

1. Click Try Your Stream.

castLabs PRESTOplay for V	Neb Apps		Learn
Player Docs Contact us			Search
		Get to know castLabs' PF powerful video playback platforms can be tested l	RESTOplay for Web Apps. Our technology for HTML5 here.
Demos Stats Logs	Configure		Q. 📰 =::
÷	E	#1531	#15
Try your stream Add Custom Configuration	Custom Configuration • Protected • MPE widevine_cbcs_hls_segment	MPEG-DASH DASH clear	HLS HLS clear
#1533	#1534	#1535	#22
Protected • MPEG-DASH Multi-Key DRM	MPEG-DASH Client-side ad insertion	MPEG-DASH Akamai low latency live	MPEG-DASH Broadpeak Low Latency Dash

Version 6.20.0 • Mode: Production-Build • Login • Privacy & Cookie Policy • Legal • ©2020-2025 castLabs

2. Fill in configuration information.

2.1 Firstly, enter the URL of the stream to be played in the "Content URL" field. If it is an HLS stream, select "HLS" for the Type; if it is a DASH stream, choose "MPEG-DASH".

c a s t L	abs PRI	ESTOplay for W	eb Apps									Le
Player	Docs	Contact us									Search.	
	_							Rendition				
			Ľ	2•^				State	PAUSED			
								Protection	Google Widevir	ne		
								Time to prepare	0.020s			
								UTC	08:12:55 CURRENT UTC	- PLAYHEAD UTC	- BEHIND	
	► 00:0	0:04 / 00:00:52		Ð				Buffering	0.502s LAST	0.502s SUM	1 NUM	
Demos	Stats	Logs	Configure									
ıto-Hide UI 🗹		-							RESET	SAVE AND LOAD	SHOW JSON	
Content URL											Туре	
Mps. Notes	12854348.50	u ap-nanjing mynydroedd	eninga, sejadike	nbduk	white the	situlo_olgi	-	1,44530-rp4			MPEG-DASH	
The source U	RL to your Man	ifest.									The source typ	9.
Name												
By giving this	configuration a	a name, you can save i	t locally and find it	it on the	e Demos pag	je.						
Start Time (S	Seconds)											
Defaults to 0 Set the playb	for VoD assets ack start time i	and live edge for Live on seconds.	content									
Preferred Au	dio Language	9		Pre	eferred Tex	t Language			Prefer Fo Iftrue, t	rced Subtitles	Ck is preferred durir	ig auto
Defaults to "				De	efaults to "				track sele	ection.		
Language co languages if	de for the prefe you want to def	erred audio language. F fine fallback languages	Pass an array of S.	Lai sul	anguage cod Ibtitles will b ant to define	le for the prefe be enabled at s e fallback lang	rred text language. tartup. Pass an arr uages. If preferFo	If this is specified, ay of languages if yo prcedSubtitles is	ou s set			
				to	true, this l	anguage prefe	rence will be applie	ed to the forced trac	ĸ			
				se	election first	, and will enab	le the forced track.					

2.2 Next, configure the client authentication information. For the DRM Environment, select DRMtoday PRODUCTION. The Merchant should be the Organization UUID found in the API endpoints, and the User ID should be the Members ID from Members/Users. The Session ID can be any value, while the Asset ID should be the ResourceId specified when initiating the encryption task. After configuring the player, click **Load** to play the encrypted stream normally.

V	
DRM Environment	
DRMtoday PRODUCTION	
Merchant	User ID
1034/89-1301-609-601-005ecox804s	HTMM/T 4249 to 22 while the 2240 plane
Session ID	
viduartilit	
Auth Token	
Asset ID	Variant ID
A Desired	
Nidevine Video Robustness	
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE no robustness values should be set. By default, we pass all availa Widevine Audio Robustness	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all available	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Indicates whether a persistent distinctive identifier is required.	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. devine Persistent State Required ndicates whether the ability to persist state is required.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Distinctive Identifier Required Indicates whether a persistent distinctive identifier is required. Widevine Version	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. devine Persistent State Required ndicates whether the ability to persist state is required.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Distinctive Identifier Required Indicates whether a persistent distinctive identifier is required. Widevine Version com.widevine.alpha	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. devine Persistent State Required ndicates whether the ability to persist state is required.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Image: Comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Distinctive Identifier Required Indicates whether a persistent distinctive identifier is required. Nidevine Version com.widevine.alpha Try experimental Widevine key systems.	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. devine Persistent State Required ndicates whether the ability to persist state is required.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Indicates whether a persistent distinctive identifier is required. Widevine Version com.widevine.alpha Try experimental Widevine key systems. *layReady Video Robustness	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly de vels from highest to lowest security level. devine Persistent State Required hdicates whether the ability to persist state is required.
Widevine Video Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Audio Robustness Enter a comma separated list. Possible values are: 'HW_SECURE, no robustness values should be set. By default, we pass all availa Widevine Distinctive Identifier Required Indicates whether a persistent distinctive identifier is required. Nidevine Version com.widevine.alpha Try experimental Widevine key systems. PlayReady Video Robustness Enter a comma separated list. Possible values are: '3000', '2000', lowest security level.	HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly devels from highest to lowest security level. HW_SECURE_DECODE', 'HW_SECURE_CRYPTO', 'SW_SECURE_DECODE', 'SW_SECURE_CRYPTO'. Use 'undefined' to explicitly devels from highest to lowest security level. devine Persistent State Required ndicates whether the ability to persist state is required. D'. Use 'undefined' to explicitly declare that no robustness values should be set. By default, we pass all available levels from highest form highest is form highest is required.

O ramping@innami.com	=	DRMTODAY > MEMBERS & ROLES	PROD CassLabs
ORGANIZATION / MERCHANT	Mei	mbers & roles	
DRMtoday V Overview	View a their r	and manage ಈ Tencent members (also known as users) as well as roles. You can also manage API accounts. <u>Learn more</u> 안	Reload C
Assets Deliveries Reports Ingest key	Men Active n membe 10	hbers (1) members can access the DRMtoday portal for this organization (also known as a merc r's roles can be viewed using the Manage link.	chant). A Add member +
Sub-organizations Members / Users API endpoints	ecialita API a Theo a	ik rempenglikeroart.com (2400)	- O Mange
configuration DRM settings Key seeds	10 80.5043	зики и • ио ии0710201735405588086680877121775.nanpang	essentration test 0 Manage
Ingest settings License delivery authorization Upfront token authorization Customer rights token Widevine CAS			
Documentation Status page Help Center			
Sign out 🕪		Contact us • Privacy & cookie policy • Legal • ©2008-20	225 castLabs • v3.83

Other tutorials Filename Variable

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

MPS supports rendering target paths of output files with the following variables:

Variable Name	Description	Usage Instruction
inputName	Input file name.	Applicable for VOD task.
inputFormat	Input file format.	Applicable for VOD task.
number	Output file number. Note: this variable only takes effect on the output .ts files produced under the HLS format.	Applicable for VOD task.
taskId	Task ID.	Applicable for Live task.
rand	Random number variable. In live stream recording tasks, it can be used to customize the output path. This way, when other variable parameters are the same, this random number variable can be used to avoid mutual overlap of multiple recording result files.	Applicable for Live task.
streamId	Stream ID in live streaming task.	Applicable for Live task.
format	Output file format.	Applicable for VOD and Live task.
definition	Parameter template ID.	Applicable for VOD and Live task.

Sample 1

If your transcoding requirements are as follows:

The name of the input file is AnimalWorldE01.mp4 .

Transcoding templates 100010, 100020, and 100030 are used.

The names of the output files are AnimalWorldE01_100010.mp4 , AnimalWorldE01_100020.mp4 , and

AnimalWorldE01_100030.mp4 , respectively.

Then, when using the ProcessMedia API to initiate transcoding:

You should specify the InputInfo.CosInputInfo.OutputObjectPath parameter as

{inputName}_{definition}.{format} .

Sample 2

If your transcoding requirements are as follows:

The name of the input file is AnimalWorldE01.mp4 .

Transcoding template 100210 is used.

The name of the output .m3u8 file is AnimalWorldE01_from_mp4.m3u8 .

The names of the output .ts files are AnimalWorldE01_from_mp4_0.ts ,

AnimalWorldE01_from_mp4_1.ts , AnimalWorldE01_from_mp4_2.ts , and so on.

Then, when using the ProcessMedia API to initiate transcoding:

You should specify the InputInfo.CosInputInfo.OutputObjectPath parameter as

{inputName}_from_{inputFormat}.{format} .

You should specify the InputInfo.CosInputInfo.SegmentObjectName parameter as

{inputName}_from_{inputFormat}_{number}.

Using Amazon S3 Buckets with MPS

Last updated : 2025-03-12 17:09:36

Step 1. Creating an S3 bucket for input/output files

1. Click Create bucket.

aws Services Q Search	[Option+S]	🗘 🕜 Global 🔻 tencent
Amazon S3 ×	Amazon S3 > Buckets	
<mark>Buckets</mark> Access Points Object Lambda Access Points	Account snapshot Storage lens provides visibility into storage usage and activity trends. Learn more	View Storage Lens dashboard
Multi-Region Access Points Batch Operations	Buckets (7) Info Buckets are containers for data stored in S3. Learn more [7]	C Create bucket Create bucket

2. Enter a bucket name and select a region.

Enter a bucket name and select a region for the bucket. As an example, Singapore is selected in the screenshot below.

ucket name				
tencentbucket				
ucket name must be glo	ally unique and must not contain s	paces or uppercase letters.	See rules for bucket nam	ing 🔼
WS Region				
Asia Pacific (Singapo	re) ap-southeast-1		▼	

3. Click Create bucket.

4. Repeat the above steps to create a bucket for transcoding outputs (optional).

Note:

You can also output transcoding files to a new directory of the input bucket.
le1 info	
Objects Properties Permissions Metrics Management Access Points	
Objects (3)	
Objects are the fundamental entities stored in Amazon 53. You can use Amazon 53 inventory 🔀 to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more 🕻	
C O Copy S3 URI O Copy URL 🕑 Download Open [2] Delete Actions ▼ Create folder 🕅 Upload	
Q Find objects by prefix	
Name ▲ Type ▼ Last modified	⊽ Size
E input/ Folder -	
Folder -	
Folder -	

Step 2. Creating an SQS queue for bucket notifications

1. Select the queue region.

Select Singapore (ap-southeast-1).

aws	Services Q Search	[Option+S]	
=	Amazon SQS > Queues		
	Queues (0)	C	Edit Delete Send and receive messages Actions v Create queue
	Q Search queues by prefix		< 1 > @
	Name 🔺 Type 🕏	✓ Created ▽ Messages available ▽ Message	s in flight \triangledown Encryption \triangledown Content-based deduplication \triangledown
		No queues	
		No queues avaitable.	
		Create queue	

Note:

To bind the queue to your bucket, make sure the queue region is the same as the bucket region.

2. Enter a queue name.

Amazon SQS > Queues > Create queue	
Create queue	
Details	
Type Choose the queue type for your application or cloud infrastructure. 3 You can't change the queue type after you create a queue.	
 Standard Info At-least-once delivery, message ordering isn't preserved At-least once delivery Best-effort ordering 	 FIFO Info First-in-first-out delivery, message ordering is preserved First-in-first-out delivery Exactly-once processing
Name tencent_queue A queue name is case-sensitive and can have up to 80 characters. You can use alphanumeric characters, hyph	nens (-), and underscores (_).

3. Disable encryption.

▼ Encryption Amazon SQS provides in-transit enc	ryption by default. To add at-rest encryption to your queue, enable server-side encryption. Info
Server-side encryption Disabled Enabled 	

4. Modify the access policy.

Select **Advanced**, enter your SQS ARN, S3 bucket ARN, and account ID at the specified locations below (for how to get the information, refer to the end of this document), and paste it under the access policy tab in the AWS console.

```
{
    "Version": "2012-10-17",
    "Id": "__default_policy_ID",
    "Statement": [
        {
            "Sid": "__owner_statement",
            "Effect": "Allow",
            "Principal": {
               "Service": "s3.amazonaws.com"
        },
    }
}
```



```
"Action": [
    "SQS:SendMessage"
],
    "Resource": "Your SQS ARN",
    "Condition": {
        "ArnLike": {
            "aws:SourceArn": "Your bucket ARN"
        },
        "StringEquals": {
               "aws:SourceAccount": "Your account ID"
        }
    }
    }
}
```

5. Click Create queue.

Step 3. Creating an SQS queue for transcoding callbacks

Note:

This is required only if you use AWS SQS callbacks.

1. Select the queue region.

Select Singapore.

aws	G Search	[Option+\$]	
=	Amazon SQS > Queues		
	Queues (0)	C Edit Delete	Send and receive messages Actions Create queue
	Q Search queues by prefix		< 1 > 🔘
	Name ▲ Type ⊽ Created		Encryption ∇ Content-based deduplication ∇
		No queues	
		No queues available.	

Note:

The queue region must be the same as your bucket region.

2. Enter a queue name.



azon SQS > Queues > Create queue reate queue					
Details					
Type Choose the queue type for your application or cloud infrastructure.					
Standard Info At-least-once delivery, message ordering isn't preserved At-least once delivery Best-effort ordering	Standard Info FIFO Info At-least-once delivery, message ordering isn't preserved First-In-first-out delivery, message ordering is preserved • At-least once delivery First-In-first-out delivery, message ordering is preserved • Best-effort ordering East-ly-once processing				
You can't change the queue type after you create a queue.					
Name tencent_callback_sqs rqueue name is case-sensione and can have up to 80 characters. You can use alphanumeric characters, hyphens {-}, and underscores {_}.	Name tencent_callback_sqs xquee name is case-sensitive and car have up to 80 characters. You can use alphanumeric characters, hyphens (-), and underscores ().				
Configuration Set the maximum message size, visibility to other consumers, and message retention. Info					
Visibility timeout info	Message retention period Info				
30 Seconds 💌	4 Days ▼				
Should be between 0 seconds and 12 hours. Delivery, delay, info	Should be between 1 minute and 14 days.				
0 Seconds V	0 Seconds Z56 KB				
Should be between 0 seconds and 15 minutes.	v 250 KD Should be between 0 seconds and 15 minutes. Should be between 1 KB and 256 KB.				
Receive message wait time info					
0 Seconds					
Should be between 0 and 20 seconds.					

3. Disable encryption.

▼ Encryption Amazon SQS provides in-transit end	cryption by default. To add at-rest encryption to your queue, enable server-side encryption. Info
Server-side encryption Disabled Enabled 	

4. Click Create queue.

Step 4. Binding the input bucket with the SQS queue

1. Go to the input bucket details page.

Return to the Amazon S3 console. Find the bucket you created and click the bucket name to enter the details page.



Amazon S3 ×	Amazon S3 > Buckets					
Buckets Access Points Object Lambda Access Points	Account snapshot Storage lens provides visibility i	ito storage usage and activity trends. Learn more 🔀			View Storag	ge Lens dashboard
Multi-Region Access Points Batch Operations Access analyzer for S3	Buckets (8) Info Buckets are containers for data stor	ed in S3. Learn more 🖸		C	Copy ARN Empty Delete	Create bucket
Block Public Access settings for this account	Name	▲ AWS Region	▼ Access			
 Storage Lens Dashboards AWS Organizations settings 		Asia Pacific (Singapore) ap-southeast-1 Asia Pacific (Singapore) ap-southeast-1 Asia Pacific (Singapore) ap-southeast-1 Asia Pacific (Singapore) ap-southeast-1	Bucket and obj Bucket and obj Bucket and obj	ects not public ects not public ects not public	November 22, 2022, 13:40:47 (UTC+ November 16, 2022, 17:35:13 (UTC+ November 9, 2022, 23:11:25 (UTC+(November 10, 2022, 00:13:47 (UTC+	⊧08:00) ⊧08:00) 08:00) ⊧08:00)
Feature spotlight 3	tencentbucket	Asia Pacific (Singapore) ap-southeast-1 Asia Pacific (Singapore) ap-southeast-1 Asia Pacific (Singapore) ap-southeast-1	Bucket and obj Bucket and obj Bucket and obj	ects not public ects not public ects not public	November 10, 2022, 01:03:29 (UTC+ November 10, 2022, 01:03:41 (UTC+ January 5, 2023, 14:37:56 (UTC+08:	⊧08:00) ⊧08:00) 00)
AWS Marketplace for S3	0	Asia Pacific (Singapore) ap-southeast-1	Bucket and obj	ects not public	November 10, 2022, 17:37:01 (UTC+	⊧08:00)

2. Bind the bucket with the SQS queue.

2.1 Select Properties.

Anazon 35 / Buckets / tencentbucket		
tencentbucket Info		
Objects Properties Permissions Metrics	Management Access Points	
Bucket overview		
AWS Region Asia Pacific (Singapore) ap-southeast-1	Amazon Resource Name (ARN)	Creation date January 5, 2023, 14:37:56 (UTC+08:00)
Bucket Versioning Versioning is a means of keeping multiple variants of an object in the both unintended user actions and application failures. Learn more Edit	same bucket. You can use versioning to preserve, retrieve, and restore every ve	ersion of every object stored in your Amazon S3 bucket. With versioning, you can easily recover fro

2.2 Scroll down until you find Event notifications. Click Create event notification.

Event notifications Send a notification when speci	(0) ific events occur in your bucket. Learn more 🔀		Edit Delete	Create event notification
Name	Event types	Filters	Destination type	Destination
	cł	No event notifications noose Create event notification to be notified when a specific event o Create event notification	occurs.	
Amazon EventBridg For additional capabilities, use	I C Amazon EventBridge to build event-driven applicat	ions at scale using S3 event notifications. Learn more 🗹 or see EventBridge prici	ing 🖸	Edit
Send notifications to Ama Off	zon EventBridge for all events in this bucket			

2.3 Enter an event name.

ieneral configuration			
vent name			
tencent_event			
refix - optional mit the notifications to objects with I images/	ey starting with specified c	haracters.	
refix - optional mit the notifications to objects with F <i>images/</i> uffix - optional mit the notifications to objects with F	ey starting with specified c	haracters.	

2.4 Select All object create events in Event types.

can choose one or more individual events.	
Object creation	
 All object create events s3:ObjectCreated:* 	Put s3:ObjectCreated:Put
	Post s3:ObjectCreated:Post
	Copy s3:ObjectCreated:Copy
	Multipart upload completed s3:ObjectCreated:CompleteMultipartUpload
Object removal	
All object removal events s3:ObjectRemoved:*	Permanently deleted s3:ObjectRemoved:Delete
	Delete marker created s3:ObjectRemoved:DeleteMarkerCreated
Object restore	
All restore object events s3:ObjectRestore:*	Restore initiated s3:ObjectRestore:Post
	Restore completed s3:ObjectRestore:Completed
	Restored object expired s3:ObjectRestore:Delete
Object ACL	
Object ACL events s3:ObjectAcl:Put	

2.5 For **Destination**, select **SQS queue**, and select the queue you created for receiving bucket notifications. Click **Save changes**.

Destination
③ Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. Learn more
Destination Choose a destination to publish the event. Learn more 🔀
 Lambda function Run a Lambda function script based on S3 events.
 SNS topic Fanout messages to systems for parallel processing or directly to people.
• SQS queue Send notifications to an SQS queue to be read by a server.
Specify SQS queue
Choose from your SQS queues
Enter SQS queue ARN
SQS queue
tencent_queue
Q
tencent_queue Cancel Save changes

2.6 Check if your SQS queue have available messages. If **Messages available** has turned from 0 to 1, the binding is successful.

Que	ues (1)							C	Edit Delete		Send and receive r	nessages	Actions v	Crea	ite qi
Q	Search queues by pre	ΪX												< 1	>
	Name		Туре	\bigtriangledown	Created	⊽	Messages available	⊽	Messages in flight	∇	Encryption	∇	Content-based ded	uplication	I
0	tencent_queue		Standard		2023年1月05日 GMT+8 14:54:31		1		0		Disabled		-		

Step 5. Creating an IAM user and grant it permissions

5.1 Create a policy.

1. Go to Identity and Access Management, click Policies, and then click Create policy.

Identity and Access × Management (IAM)	IAM > Policies			
	Policies (1033) into A policy is an object in AWS that defines permissions.			Create policy
Q Search IAM	Q Filter policies by property or policy name and press enter.			<pre>1 2 3 4 5 6 7 52 > ③</pre>
 Access management 	Policy name 🗢	Туре 🗢	Used as \bigtriangledown	Description
User groups	AWSLambdaBasicExecutionRole-97aac158-b88c-4833-8c93-f49b2c0a1951	Customer managed	None	
Users	AWSLambdaBasicExecutionRole-f3d617e0-6617-4395-b4ab-1842a6136b	Customer managed	None	
Roles	AWSLambdaEdgeExecutionRole-fc574814-f9db-4f79-aabc-2b7c3a57dd7e	Customer managed	Permissions policy	
Identity providers	CloudFrontRealtimeLogConfigRole-stream1_aryzap	Customer managed	Permissions policy	
Account settings	CloudFrontRealtimeLogConfigRole-stream_aryzap	Customer managed	Permissions policy	
Access reports	○	Customer managed	Permissions policy	
Access analyzer	○	Customer managed	Permissions policy	
Analyzers	○ tencent_policy	Customer managed	None	
Settings	The AWSDirectConnectReadOnlyAccess	AWS managed	None	Provides read only access to AWS Direct Connect via the AW
Credential report	C 🕀 🗊 AmazonGlacierReadOnlyAccess	AWS managed	None	Provides read only access to Amazon Glacier via the AWS Ma
Service control policies (SCPs)		AWS managed	None	Provides the ability to subscribe and unsubscribe to AWS Mar
	ClientVPNServiceRolePolicy	AWS managed	None	Policy to enable AWS Client VPN to manage your Client VPN
Related consoles	E AWSSSODirectoryAdministrator	AWS managed	None	Administrator access for SSO Directory
IAM Identity Center 🛛 New	E AWSIoT1ClickReadOnlyAccess	AWS managed	None	Provides read only access to AWS IoT 1-Click.
	E AutoScalingConsoleReadOnlyAccess	AWS managed	None	Provides read-only access to Auto Scaling via the AWS Mana

2. Choose the JSON tab, enter your SQS ARN and bucket ARN in the JSON policy below, paste it under the JSON tab, and click **Next** (twice).

Policy for Amazon SQS callbacks

Policy for HTTP callbacks





```
{
```

```
"Version": "2012-10-17",
"Statement": [
    {
        "Sid": "VisualEditor0",
        "Effect": "Allow",
        "Action": [
            "sqs:DeleteMessage",
            "s3:GetObject",
            "sqs:GetQueueUrl",
            "sqs:ReceiveMessage",
            "s3:GetObjectAttributes",
            "sqs:GetQueueAttributes",
            "sqs:ListQueueTags"
        ],
        "Resource": [
            "The ARN of the SQS queue for bucket notifications",
            "The input bucket ARN + /*"
```



```
1
        },
        {
             "Sid": "VisualEditor1",
             "Effect": "Allow",
             "Action": [
                 "s3:PutObject",
                 "sqs:GetQueueUrl",
                 "sqs:SendMessage"
            ],
             "Resource": [
                 "The ARN of the SQS queue for transcoding callbacks",
                 "The output bucket ARN + /*"
            ]
        }
    ]
}
```



```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "sqs:DeleteMessage",
                "s3:GetObject",
                "sqs:GetQueueUrl",
                "sqs:ReceiveMessage",
                "s3:GetObjectAttributes",
                "sqs:GetQueueAttributes",
                "sqs:ListQueueTaqs"
            ],
            "Resource": [
                "The ARN of the SQS queue for bucket notifications",
                "The input bucket ARN + /*"
            1
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
                "s3:PutObject"
            ],
            "Resource": [
                "The output bucket ARN + /*"
            ]
        }
    ]
}
```

Note:

In Resources of the JSON document, make sure you attach /* to the bucket ARN. For example, if your bucket
ARN is arn:aws:s3:::tencentbucket , enter arn:aws:s3:::tencentbucket/* .
3. Enter a policy name and click Create policy.



Name*	tencent_policy			
	Use alphanumeric and '+=,.@	' characters. Maximum 128 characters.		
Description				
	Maximum 1000 characters. L	Ise alphanumeric and '+=,.@' characters.		
Summary	Q Filter			
	Service 🔻	Access level	Resource	Request condition
	Allow (2 of 357 servic	es) Show remaining 355		
	S3	Limited: Read	BucketName string like tencentbucket, ObjectPath s All	None tring like
	SQS	Limited: Read	QueueName string like tencent_queue	None
Tags				
	Кеу		▲ Value	
		No	tags associated with the resource.	

5.2 Create an IAM user.

1. Go to the IAM page, click **Users**, and then click **Add users**.

Identity and Access X Management (IAM)	Introducing the new Users list experience We've redesigned the Users list experience to make it easier to use. Let us know what you think.			
	IAM > Users			
Q Search IAM Dashboard	Users (2) Into An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.		Ŕ	C Delete Add user
Access management	Q Find users by username or access key			< 1 >
User groups	Ilser name V Grouns V Last activity V		Password ane	Active key ane
Boles			rassword age +	Active key age
Policies		None	None	🛇 43 days ago
Identity providers		None	None	🛇 17 days ago
Account settings				

2. Enter a user name and click **Next** in the bottom right.



ser details		
er name		
encent_test_use1		
e user name can have up to 64 characters. Valio	characters: A-Z, a-Z, 0-9, and += , . @ (hyphen)	
Provide user access to the AWS Manage If you're providing console access to a person,	ment Console - optional It's a best practice 🔁 to manage their access in IAM Identity Center.	
() If you are creating programmatic ac	:ess through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. Learn more 🖸	

Click **Attach existing policies directly**, type in the search box the name of the policy you just created, and select the policy.

Click Next and then click Create user.

3. Click the name of the user you created.

Management (IAM)	We ve redesigned the Users list experience to make it eas	sier to use. <u>Let us know what you think</u> .				
	 User created successfully You can view and download the user's password and email 	ill instructions for signing in to the AWS Management Console.				
Q. Search IAM						
Dashboard	IAM > Users					
▼ Access management						
User groups	Users (4) into An IAM user is an identity with long term production the	at in unact to internet with AMIC in an appount				2 Delete A
Users	An IAM user is an luenuty with long-term credentate in					
Roles	Q. Find users by username or access key					< 1
Policies	llear name	Groupe		V MEA	T Pareword ana	Active key see
Identity providers		+ Groupa	- Lust uctivity		· I usaworu ugo	· Acure key age
Account settings		None	📀 6 days ago	None	None	🛕 107 days ago
▼ Access reports		None	8 minutes ago	None	None	🔮 80 days ago
Access analyzer		None	S 62 days ago	None	None	63 days ago
Archive rules		New	Maria	Nee	Need	
Analyzers	Shoury-sest	None	Never	None	None	•
Settings						
Credential report	\mathbf{X}					
Organization activity	N N					
Service control policies (SCPs)						
Related consoles						
IAM Identity Center 🗹 🛛 🕬						
AWS Organizations						

4. Click Security credentials > Access keys > Create access key.



Console access		Access key 1		
Disabled		Not enabled		
Last console sign-in		Access key 2		
		Not enabled		
				Enable console ac
	Console password			
	Not enabled			
			Remove Resume	Assian MEA de
device. Each user can have a maximum of 8 MFA devices assigned. L	earn more 🖉		Kenove	Assignmentaut
Identifier		Created on		
No MFA devices. Assign an MFA device to im	prove the security of your AWS environment			
Assign M	FA device			
				Create accord
calls. You can have a maximum of two access keys (active or inactiv	e) at a time. Learn more 🏹			create access
No acce actice, avoid using long-term credentials like access kevs. I	255 keys nstead, use tools which provide short term credentials	Learn more 🖉		
Create ad	ccess key			
	Console access Disabled Last console sign-in - evice. Each user can have a maximum of 8 MFA devices assigned. I identifier No MFA devices. Assign an MFA device to im Assign M calls. You can have a maximum of two access keys (active or inaction calls. You can have a maximum of two access keys (active or inaction calls. You can have a maximum of two access keys (active or inaction calls. You can have a maximum of two access keys (active or inaction calls. You can have a maximum of two access keys (active or inaction calls. You can have a maximum of two access keys (active or inaction calls. You can have a maximum of two access keys (active or inaction calls. You can have a maximum of two access keys (active or inaction)	Console access Disabled Last console sign-in • • evice. Each user can have a maximum of 8 MPA devices assigned. Law more (2) evice. Each user can have a maximum of 8 MPA devices assigned. Law more (2) evice. Each user can have a maximum of 8 MPA devices assigned. Law more (2) evice. Each user can have a maximum of 8 MPA devices assigned. Law more (2) evice. Each user can have a maximum of 8 MPA devices assigned. Law more (2) evice. Each user can have a maximum of 8 MPA devices assigned. Law more (2) evice. Lack user can have a maximum of two access keys (active or inactive) at a time. Law more (2) evice. Lack user can have a maximum of two access keys (active or inactive) at a time. Law more (2) evice. Lack user can have a maximum of two access keys (active or inactive) at a time. Law more (2) evice. Lack user can have a maximum of two access keys (active or inactive) at a time. Law more (2) evice. Lack user can have a maximum of two access keys (active or inactive) at a time. Law more (2)	Console access Disabled Access key 1 Not enabled Last console sign-in - Access key 2 Not enabled . Access key 2 Not enabled . Console password Not enabled . Console password (password	Console access Access key 1 Databated Not enabled Last console sign-in Access key 2 - Access key 2 Not enabled Not enabled In the enabled Intervent Intervent Remore Remore Remore

5. Select **Other** and click **Next**. Note the access key ID and secret access key.

Command Line Interface (CLI) You plan to use this access key to enable the AWS CLI to access your AWS account.	
You plan to use this access key to enable application code in a local development environment to access your AWS account.	
Application running on an AWS compute service You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon EC5, or AWS Lambda to access your AWS account.	
 Third-party service You plan to use this access key to enable access for a third-party application or service that monitors or manages your AWS resources. 	
 Application running outside AWS You plan to use this access key to enable an application running on an on-premises host, or to use a local AWS client or third-party AWS plugin. 	
• Other Your use case is not listed here.	
It's okay to use an access key for this use case, but follow the best practices: Never store your access key in plain text, in a code repository, or in code.	
Disable or delete access keys when no longer needed.	
Enable least-privilege permissions.	
Rotate access keys regularly.	
For more details about managing access keys, see the Best practices for managing AWS access keys.	



Appendix

You can view your account ID by clicking your user name in the top right corner of the console home page.

aws Services Q Search	[Option+S]		4	Singapore 🔻
🍪 MediaLive 🛛 🧕 MediaPackage					Account ID: 4
	Console Home Info			Reset to default layout + Add widgets	Account
	Recently visited Info		:	Welcome to AWS	Organization Service Quotas
	8 MediaLive	€ 53		Getting started with AWS [2]	Billing Dashboard
	🕸 MediaConnect	AM E		information to get the most out of AWS.	Security credentials
	CloudWatch	Difference Service Ser			Settings
	MediaPackage	Certificate Manager		Training and certification	Sia
	Simple Queue Service			skills and knowledge.	
	AWS Billing Conductor				
	CloudFront			What's new with AWS? 2 Discover new AWS services, features, and Regions.	
	View	all services			

To view the ARN of an S3 bucket, go to the Buckets page and click Properties.

azon S3 > Buckets > tencentbucket		
encentbucket Info		
Objects Properties Permissions Metrics	Management Access Points	
Bucket overview		
AWS Region	Amazon Resource Name (ARN) arr:aws:s3:::tencentbucket	Creation date January 5, 2023, 14:37:56 (UTC+08:00)

To find the ARN of your SQS queue, on the **Create queue** page, find **Access policy**, click **Advanced**, and Resource indicates your queue ARN.



Amoon 105 > Queues > Cente queue					
Create queue					
Details					
Type Coose the quiest type for your application or cloud infrastructure.					
Standard set S	If Or lank Triss in finite act delayer, message ordering is presented				
Enlage and delayy	Provide Real and advery				
• several loading	Sampler processing				
(6) You can't change the queue type after you create a queue.					
Namo					
thique .					
A queer come is cose-section and can have up to 80 detactors. No can use alphaneteric characters, hyplene H, and underscore (_1.					
Configuration					
Set the maximum message Sax, shalled y to other consumer, and restage intention, tofa					
VidBilly tineoct wis	Message retortion period min				
Ta Seconds T					
and a second and the second se	La construction and the formation of the				
	analog and an entry to be a set of the set o				
Deterity day law	Pasarum message sae sala				
0 Seconds •	22 13				
Stead da between 0 seconds and 15 minutes.	Sound les between 148 and 259 KE.				
Receive message wait time sale					
0 Secondi					
Duald to between 0 and 20 normals.					
Incryption Annual Standards in these records to default. To add at every ensure enable server-detencords in the					
Coalad Exegative log text 20 20 20					
Access policy The new second se					
Dossenethod					
C Bake Baket	Abared Additional and a second servers entiry				
	on a trave of in Constant Workston Party Constant North				
1 1 2 Terring': (2004-04-17)	A				
1 (cf. (_admit_pality_p)) Second					
Niky generator 🖉					
Redrive allow policy - Options! Monty which serve summarizes for particular devices and					
Deck-Hatter queue - Quetonol Ind Anthere are receipt to a lost liter guess. Me					
Tags - Optional tops solid anyotra wild serves latery to an over the pure measure in tay you that one. Later range					
Institutional Value (Neuron 2001-90-17, 2011, 2012, 201	wealer(* "annaeds:st/st/st 1: StringEquid: (*aesSourakeauert * 46666681487))))) for parameter Policy is instald. Reason Non-ASSI character havel in Policy statement, place check your input.				

If you don't know what to enter for the region field in the Tencent Cloud console, go to the Amazon S3 Buckets page, find your bucket, the latter half of **AWS Region** (remove the spaces) is what you should provide to Tencent Cloud. According to the screenshot below, the region you should enter for the tencentbucket bucket is apsoutheast-1.

Amazon	53 > Buckets					
► Ac	count snapshot rage lens provides visibility i	into storage usage and activity trends. Learn more 🔀				View Storage Lens dashboard
Bucket	xets (10) Info s are containers for data stor	red in S3. Learn more 🔀		С	Copy ARN Empty	Delete Create bucket
Q r	Name	AWS Region	▽ 4		▼ Creation date	
0		Asia Pacific (Singapore) ap-southeast-1	E	Bucket and objects not public	February 23, 2023,	14:42:50 (UTC+08:00)
0		Asia Pacific (Singapore) ap-southeast-1		A Public	November 22, 2022	, 13:40:47 (UTC+08:00)
0		EU (Paris) eu-west-3	E	Bucket and objects not public	March 7, 2023, 21:3	7:06 (UTC+08:00)
0		Asia Pacific (Singapore) ap-southeast-1	E	Bucket and objects not public	November 9, 2022,	23:11:25 (UTC+08:00)
0		Asia Pacific (Singapore) ap-southeast-1	E	Bucket and objects not public	November 10, 2022	, 00:13:47 (UTC+08:00)
0		Asia Pacific (Singapore) ap-southeast-1	E	Bucket and objects not public	November 10, 2022	, 01:03:29 (UTC+08:00)
0		Asia Pacific (Singapore) ap-southeast-1	E	Bucket and objects not public	November 10, 2022	, 01:03:41 (UTC+08:00)
0	tencentbucket	Asia Pacific (Singapore ap-southeast-1] [Bucket and objects not public	January 5, 2023, 14	:37:56 (UTC+08:00)
0		EU (Paris) eu-west-3	Ē	Bucket and objects not public	March 10, 2023, 10	06:36 (UTC+08:00)
0		Asia Pacific (Singapore) ap-southeast-1	E	Bucket and objects not public	November 10, 2022	, 17:37:01 (UTC+08:00)

MPS Task Callback Notification

Last updated : 2022-06-06 11:10:54

After a video is processed by MPS, it's a standard practice to send a notification about the completion of the video processing task. MPS has a template in SCF which you can use to enable this feature.

Overview

The example in this document uses MPS and SCF. MPS executes vide processing tasks, and SCF handles callback messages.

Directions

Step 1. Create a function

1. Log in to the SCF console, and click **Function Service** on the left sidebar.

2. At the top of the Function Service page, select Beijing and click Create to enter the function creating page.

3. Set the following parameters:

Function name: enter a name, e.g., MPSAnalysis .

Runtime: task callback templates support only Nodejs 8.9 at the moment.

Create Method: select Function Template.

Fuzzy search: enter "MPS Webhook template" and search.

Note:

Click Learn More in the template to view details in the Template Details window, which can be downloaded.

4. Click **Next** to go to the function configuration page.

5. Keep the default configuration and click **Finish** to complete the creation.

Step 2. Configure an MPS trigger

1. In the SCF console, click **Function Service** on the left sidebar, and click the function created to go to the details page.

2. Click **Trigger Management** > **Create a Trigger**. A trigger creation window pops up. Select **MPS trigger** for the trigger method.

The information of the main parameters is as follows. Keep the default settings for other parameters.

Event Type: an MPS trigger pushes events at the account level. Two types of trigger events are supported now:

Workflow Task (WorkflowTask) and Video Edit Task (EditMediaTask).

>?



>- A service role exception message will appear when you create an MPS trigger for the first time. Click **SCF_QcsRole** and **MPS_QcsRole** as prompted to grant the necessary permissions. >- An MPS trigger uses events generated at the service level as event sources, regardless of attributes such as region and resources. Each event type can be bound to only one function for each account. If you need multiple functions to handle a task, please see [Node.js SDK] (https://intl.cloud.tencent.com/document/product/583/32747).

3. Click **Submit** to complete the configuration.

Step 3. Test the function

1. Log in to the MPS console and start a video processing workflow.

2. Go to the **SCF console** to view the execution result.

Select the Log Query tab on the function details page to view the printed log information.

3. Log in to the COS console to view the data dumping and processing result.

Note:

You can write your own data processing methods as needed.

MPS Task Callback Backup to COS

Last updated : 2022-01-18 16:19:44

Backing up callbacks of MPS tasks to COS via SCF is a standard practice. MPS has a template in SCF which you can use to enable the feature. MPS executes video processing tasks; SCF handles callback messages, and COS provides permanent terminal storage.

Directions

Step 1. Create a function

1. Log in to the SCF console, and click Function Service on the left sidebar.

Stencent Cloud	Overview Products - +	
Serverless Cloud Function	Functions Suangzhou(0) Vamespace: default	▼ X
•• Overview	Create 0 functions selected. Up to 10 functions can be deleted at the sa	me
Ø Function Service	time.	
\$ Layer	Function Name Function ▼ Moni Function ▼ Runtime Y Status torin Type Environment g	r D
	Total items: 0	

2. At the top of the **Function Service** page, select **Beijing** and click **Create** to enter the function creating page.

3. Set the following parameters:

Create Method: select Template.

Fuzzy search: search CLSSCFCOS.



	Template Use demo ter or applicatior	mplate to create a function	Custom Create a cus HelloWolrd d	tom function using lemo			
zzy search	mps Sepa	rate multiple tags with carriaç	ge returns			Q] 共2个
	MPS_SCF_	_COS Le	arn More	MPSWebho	okD	Learn	More
	Category	Function		Category	Function		
	Description	The SCF will write each message to txt by each lin	e	Description	Use cloud fur MPS informat	nctions to push tion.	
	Tag	Python2.7 MPS C	OS	Tag	Nodejs8.9	MPS	
	Author	🔗 Tencent Cloud			Webhook		
	Deploy	7,880次		Author	🔗 Tencent C	Cloud	
				Deploy	7,966次		

You can click Learn More in a template to view its details or download the template.

4. Click Next.

Create						
Basic Configur	Basic Configurations					
Function name *	MPS_SCF_COS					
Region *	It supports 2 to 60 characters, including letters, numbers, underscores and hyphens. It must start with a letter and end with a number or letter.					
Description *	The SCF will write each message to txt by each line. Then SCF will name this file by time and upload this txt to COS bucket.					
	Up to 1000 letters, digits, spaces, commas, and periods.					
Function Code	S Runtime: Python2.7 Execution Method: index.main_handler					
Advanced Con	iguration () Function invocation logs are published to the SCF-specific topic of CLS, which will use the free tier of CLS. See CLS Billing Details 🗹					
Trigger Configu	irations					
Create a Trigger	Custom					
Cancel	omplete					

5. Keep the default configuration and click **Complete** to complete the creation.

Step 2. Configure an MPS trigger

1. In the SCF console, click Function Service on the left sidebar, and click the function created to go to the details page.

2. Click **Trigger Management** > **Create a Trigger**. A trigger creation window pops up. Select **MPS trigger** for the trigger method.

The main parameter information is as follows. Use the default values for the remaining configuration items.

Event Type: an MPS trigger pushes events at the account level. Two types of trigger events are supported now:

Workflow Task (WorkflowTask) and Video Edit Task (EditMediaTask).

Note:

A service role error message will appear when you create an MPS trigger for the first time. Click **SCF_QcsRole** and **MPS_QcsRole** to grant the necessary permissions as prompted.

An MPS trigger uses events generated at the service level as event sources, regardless of attributes such as region and resources. Each event type can be bound to only one function for each account. If you need multiple functions to handle a task, please see Node.js SDK.

3. Click **Submit** to complete the configuration.

Step 3. Test the function

1. Start an MPS video processing workflow in the MPS console.

2. Go to the SCF console to view the execution result.

Select the **Log Query** tab on the function details page to view the printed log information.

3. Log in to the COS console to view the data dumping and processing result.

Note:

You can write your own data processing methods as needed.