

StreamLive Feature Guide Product Documentation





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Feature Guide Implementing Live Streaming Preparations

Last updated : 2022-09-14 11:01:30

StreamLive offers live stream connection and real-time transcoding services. It supports multiple protocols, input redundancy, and other high-availability source management capabilities. With StreamLive, you can easily set up cloud origin servers for live streaming. Together with CSS and its huge distribution network across the world, StreamLive provides you with reliable and secure global streaming services with excellent user experience.

Prerequisites

You have activated StreamLive, StreamPackage, and CSS.

We will show you how to set up live streaming based on the three Tencent Cloud products. The figure below shows the flow of live streaming data from left to right. However, you need to set up live streaming in the order specified by the sequence number.



Configuration Configuring StreamPackage

Last updated : 2022-09-14 11:01:30

This document shows you how to configure StreamPackage.

1. Log in to the StreamPackage console, select a region near to your operations.

Tencent Cloud	Overview Products - +
StreamPackage	Channel Management S Mumbai 🔹
Channel Management	Create Channel Delete

2. Click Create Channel and enter the required information in the pop-up window.

Create Channel		×
Name *	Test_Channel	\odot
Input Protocol *	HLS -	
HLS Setting		
Max Segment Duration (sec) (i) *	4	\odot
Max Playlist Duration (sec) (i) *	12	\odot
С	reate Cancel	
D 4 0 L		парило

Input Protocol: HLS or DASH. HLS is selected in this example.

Max Segment Duration: The maximum duration of TS segments pushed to this channel. We recommend you set this to four seconds.

Max Playlist Duration: The maximum duration of M3U8 playlist files pushed to this channel. We recommend you set this to 12 seconds (i.e., three TS segments in an M3U8 playlist).

3. Click **Create**. You will enter the advanced configuration page. You can view existing configuration information under the **Information** tab, or configure push URLs, playback URLs, and CDN acceleration under the **Input**, **Endpoints**, and **CDN** tabs.

4. **Input**: The system will automatically assign two input URLs for the channel, which can be used for failover to ensure high availability.

← Test_(Channel					
Infomation	Input	Endpoints	CDN			
Item		Input Proto	col	Input Url	Authentication	Operation
input1		HLS		http://1301446065.ap-mumba 🗖	OFF	Authentication
input2		HLS		http://1301446065.ap-mumba 🗖	OFF	Authentication
Total items: 2					10 💌 / pag	e 🖂 4 1 /1 page 🕨

You can configure independent authentication information for each input. After you enable **Input Authentication**, the system will automatically generate **a username and a password** for the input.

You can click **Rotate credentials** to generate new authentication information. The original information cannot be recovered.

If you want to push content to the input URL from a third-party service, make sure you note the **Input URL** and authentication information.

5. Endpoint: Select the Endpoints tab, click Create Endpoint to create a playback URL. Two access control methods are supported: IP Restriction and AuthKey. Because HLS is selected as the input protocol, an HLS URL will be generated. The URL is the full path of the main.m3u8 file.

Create Endp	oint	×
Name	Test_Endpoint	
Туре	HLS	
IP Restriction		
AuthKey		
	Create Cancel	

Edit Delete

1

•

10 💌 / page



Test_Endpoint

Total items: 1

6. You have now completed configuration for StreamPackage. Return to **Channel Management**, find the channel you created in the list, and note the **ID** and **Endpoint URL** for later use.

Channel Managemen	t 🔇 Mumbai 🔻				
Create Channel	Delete				
Name ‡	Input Protocol T	ID		Input URL (j)	Operation
Test_Channel	HLS	······································	(6	Info Edit Delete
- Test Channel					
Infomation Input	Endpoints CDN				
Create Endpoint	Delete				
Name ‡	Endpoint Protocol	Url	Сору	Authentication	Operation

6

HLS

Configuring CSS

Last updated : 2024-06-26 14:11:26

CSS ensures a better viewing experience for end users. This document shows you how to configure CSS. StreamPackage, as the cloud origin server service, will be combined with CSS's globally extensive distribution network to deliver stable, secure, and high-quality global streaming services.

Method 1

1. For CSS CSS products, go to the Domain Management section in the console and refer to the Documentation Guide to set up the CSS playback domain.

2. For your playback domain, you can enable the Origin server mode.

Cloud Streaming Services	Domain Mana	agement / w	Origin	server mode 🛈	
B Overview	Basic Info	Origin-pull configuration	Access control	Advanced Configuration	
🖾 Domain	Basic set	tinge (i)			1 40
Stream Scenario-Specific Services	Status Region	Enable ap-mumbai			Edit
로는 Feature	Channel	Channel		Origin-Pull & Playback Protocol	
Da LEB				DASH	
≓ Relay					
Laboratory				HLS	
Data Center II Billing Usage Statistics		20.00		HLS	

3. In the origin server settings, select the type as StreamPackage, then choose the region and channel of your StreamPackage.

×

Origin server settings							
Origin Server Type Region	Live streaming origin server Streaming origin server	mPackage	•				
Channel	- Channel T	Origin-Pull & Playback Protocol					
		HLS	^				
		DASH					
		HLS					
		HLS					
		HLS	Ŧ				

4. After the configuration is completed, the system will take some time to take effect.

Cloud Streaming Services	Domain Mana	agement /	Origin	server mode 🚯
Cverview	Basic Info	Origin-pull configuration	Access control	Advanced Configuration
🚾 Domain	Basic set	tings		
🕞 Stream	Status	Deploving		
Scenario-Specific Services	Region	ap-mumbai		
Feature · Configuration	Channel	Channel		Origin-Pull & Playback Protocol
⊡ª LEB				DASH
🛱 Relay				
Laboratory		Sec.		HLS
Data Center II Billing Usage Statistics				HLS

5. To get the final URL for playback, splice the CSS playback domain and the StreamPackage endpoint path.

Method 2

1. After you complete the following configuration in StreamPackage, Tencent Cloud will automatically add origin server settings for the corresponding playback domain in CSS. In the StreamPackage console, click the StreamPackage channel you created, select the **CDN** tab, and click **Edit Configuration**.

← Test_C	hannel						
Infomation	Input	Endpoints	CDN				
_							
CDN Setting	(StreamPac	kage supports quic	k integration with CSS CDN to distribute live video streams.)				
The CDN distr	ibution is not (currently enabled. 1	To enable it, please click "Edit Configuration".				
Edit Configuration							

2. In the pop-up window, enter the playback domain you want to use and click **Confirm**.

Content delive	ery Network(CDN) Setting	×
Domain Name	play-hls.live.	
	Confirm	

3. After the CSS origin server configuration is completed, the current page will display information including the **Playback Domain Name**, **CNAME**, **Acceleration Region**, and **Status**. The default acceleration region is outside the Chinese mainland.

CDN Setting	(StreamPac	kage supports quick	integration with CSS CDN	to distribute live video streams.)	
Playback Doma	ain Name	play-hls.live.	. B.com	CNAME (j)	I play-hls.live
Acceleration Re	egion	Outside Mainland (China and Hong Kong	Status	⊘ Enabled

4. If you also want to configure access control, referer allowlist/blocklist, and HTTPS for the playback domain, click

Go to the CSS CDN Console to Perform More Actions.

5. If you don't need to perform further configuration, note the **CNAME** assigned by the system and add it in your DNS platform.

DNS Records			
DNS Records tell the Inte	ernet what to do with your domain, like showing yo	our website content and delivering your email.	
Delete Copy		Filte	er ∨ Add …
<u>CNAME records</u> are a	type of subdomain, or alias, that points to anothe	r domain name.	TTI
CNAME ~	play-hls.live	play-hls.live.vm i o 🏡 🖬 🖬 🖬 I.com.	Custom ~
			Seconds 600
Add record C	Clear		

6. To get the final URL for playback, splice the CSS playback domain and the StreamPackage endpoint path.

Configuring StreamLive

Last updated : 2024-07-22 14:11:57

Go to the StreamLive console. The left sidebar displays four sections:

- Security Group Management
- Input Management
- Channel Management
- Watermark Management

We will show you how to configure security groups, inputs, and channels (required), as well as watermarks (optional).

1. Select **Security Group Management** on the left sidebar and click **Create Security Group**. In the pop-up window, enter a security group name and specify the IP allowlist. IP addresses must be in CIDR format. Separate addresses with commas or line breaks.

Create Input security group				
Create an input se	ecurity group to ensure secure and valid input			
Name *	Test_Sec_Grp	\odot		
IP Allowlist (?) *	0.0.0/0	\oslash		
	Confirm			

2. Select **Input Management** on the left sidebar, click **Create Input**, and complete the settings in the pop-up window.

Create Input			×
Name *	Test_Input		${\boldsymbol{\oslash}}$
Type *	RTMP_PUSH	•	
Security Group *	Test_Sec_Grp	▼	
Delay Time			
Destination A (?) *	live	TestStreamA	
Destination B 🥐	live	TestStreamB	
	Confirm Ca	ncel	

Type: The streaming protocol. RTMP_PUSH is selected in this example.

Security Group: The security group to associate. Select from the drop-down list a created security group.

Destination: The push destination. Enter at least one **AppName** and **StreamName**. You can configure two destinations to offer redundancy.

3. Click **Confirm**. Find the input you created in the input list to enter the details page. Note the push destination for later user.

4. Click **Channel Management** on the left sidebar and click **Create Channel**. In the **General Information** step, enter a channel name.

÷	Create channel		i Help Documenta
1	General Setting	General info Create a channel that encodes your input into multiple groups and outputs. Channel name • Test_Channel	
	Setting	Regulariy cleaned 🕄 🛛 🔹	
		▶ Tags	
		Import Configuration Next	

5. In the **Input Setting** step, add the input you just created (you can add multiple inputs, for which you can configure different transcoding templates and outputs).

÷	Create channel					(i) Help Docum			
Ø	General Setting	Notes:							
2	Input Setting	 If you add multiple inputs, used for failover must be of 	the first input is used by default. Other input of the same type as the primary input.	s may be used in failover or when an ev	ent in the plan is triggered. You can enable the Ir	nput Failover in Input Setting, and the backup input			
		If you add multiple inputs,	you can only add inputs that contain the sar	ne number of pipelines.					
3	Output Group Setting	 Please note that after inpu pipelines will incur transco channels whose status is ' 	• Please note that after input data is first received, as long as the corresponding channel is in "RUNNING" status, transcoding fees will be incurred. And for the input contains two independent pipelines, both pipelines will incur transcoding fees. Even if no input data is received for a certain period of time, transcoding fees will still be incurred. This is because the system will insert black frames automatically. Only channels whose status is "IDLE" will not incur transcoding fees.						
		Add							
		Input Name	Input Type	Pipeline	Bind Status	Operation			
		Test_Input	RTMP_PUSH	1	-	Details Setting Set as First Delete			
		Callback Configuration 🛈	Note: This callback configuration	n only takes effect for RTMP_PUSH inp	uts.				
		Input Pipeline Failover 🛈	Note: As long as the channel is	in "RUNNING" status, for the input curr	ently in use, each pipeline within the input will inc	cur transcoding fees.			
		Input Loss Behavior							
		Previous Next							

6. In the Output Group Setting step, configure transcoding templates and outputs for the channel.

For **Basic Information**, enter an output group name and select an output group type (two protocols and three output types are supported). In the **Destination Information** area, enter the **StreamPackage Channel ID** you noted previously. This allows you to quickly implement transcoding and packaging for your live streams.

tput Group name *	Test_Output_Grp
tput Group type *	HLS
	Send live video and audio to smartphones, tablets, computers, and other services with HLS.
	ODASH
	Send live video and audio to smartphones, tablets, computers, and other services with DASH.
	HLS_ARCHIVE
	Archive your live video and audio to Tencent Cloud COS with HLS.
	O DASH_ARCHIVE
_	Archive your live video and audio to Tencent Cloud COS with DASH.
	Send live video and audio to Tencent Cloud StreamPackage with HLS.
	Send live video and audio to Tencent Cloud StreamPackage with DASH.
stination Informa	ation *
eamPackage	
annel ID	

You can also specify the **Segment Information** on this page, including the segment type, segment duration, and segment number. For some devices, such as Apple TV, to play H.265-encoded videos, you need to select **fmp4** as the **Segment Type** and **hvc1** as the **Packaging Type**.

 Segment Infor 	mation	
Segment Type	ts 🔹	r
Segment Duration	4000	
	Between 1000 and 30000, only be a	a multiple of 1000
Segment Number	3	
	Between 3 and 300	
H.265 Packaging Type ()	hev1 v	r
Low Latency		

7. In the outputs setting, you can set multiple outputs as required, such as naming outputs according to different bitrates. Then click **transcoding setting** to enter the detailed parameter settings page.

Outputs *								
Add one or more outputs to this group. Each output has unique stream settings that enable you to choose the video, audio, and captions tracks that you need. All outputs in a output grou need to be kept in the same transcoding type (joint transcoding/separate transcoding).								
Add								
Output Name	SCTE-35 Setting	ID3 Passthrough	Transcoding Setting	Actions				
Test_Output_800k			Setting	Remove				
Test_Output_400k			Setting	Remove				

8. Set the audio and video transcoding parameters, and save them after completing the settings.

Transcoding Setting					
Transcoding (i) Joint Tran	nscoding Separate Transcoding				
Audio/Video Copy Audio/	Wideo	Remove			
Name	800k				
Audio Transcoding					
Single track	/lulti track(j)				
Audio Selector Name	Please Select 👻				
Acodec	AAC 🔻				
Audio Codec Configuration	ion				
Audio Normalization Sett	ttings				

9. Return to the channel list and click **Start** in the **Operation** column to start the channel.

Channel Management	🔇 Mumbai 🔻		
Create Channel		Search by channel N	lame or ID
Name 🕈	State T	ID	Operation
Test_Channel	IDLE	62D03AD8C2AB091D3B5F	Edit Start Delete Export Clone

Publishing and Playing a Live Stream

Last updated : 2022-09-14 11:01:30

This document shows you how to use OBS to push streams and VLC to play streams. Open OBS, go to **Settings** > **Stream**, and enter the input URL in **Server** and the stream name in **Stream Key**.

	OBS 27.2.4 (mac) -	- Profile: online	e clock - Scenes: online clock		
ТІМ	4E.15		۹. ≡		
You The diff Time in	ur time is exact! Iference from Time.is was +0.04 seconds (±0.005 seconds). 1 Shenzhen, China now:				
	23:1		32.954		
			Settings		
	General				
		Service	Custom		\$
	(A) Stream	Server	rtmp://ii. **#.#I. i:-*adue*abii**********************************		
Autor D	Output	Stream Key	TestStreamA		Hide
A pertampe	Audio				
No source selected	Video				
් Scenes Timer Streaming	Hotkeys				
	Advanced		Use authentication		
$+ - \land \checkmark$					
				Cancel	ОК

Open VLC (VLC for macOS is used in the example), click **File > Open Network...**, select the **Network** tab, and enter the StreamPackage endpoint URL (replace the domain part with the playback domain configured in CSS).



You have now implemented a high-reliability live streaming service based on StreamLive, StreamPackage, and CSS.





Digital Rights Management (DRM)

Last updated : 2025-05-28 17:09:51

Overview

StreamLive supports custom key DRM, SDMC DRM and TencentDRM. To configure DRM, go to Channel Management, find the channel you want to configure DRM for, and click Edit. On the Output Group Setting page, configure DRM in the DRM area.

Protocol Type	Scheme : SDMCDRM	Scheme: CustomDRMKeys	Scheme: TencentDRM
HLS , Segment Type : ts	FAIRPLAY	FAIRPLAY、AES128	FAIRPLAY、AES128
HLS, Segment Type : fmp4	FAIRPLAY、 WIDEVINE、 PLAYREADY	FAIRPLAY、 WIDEVINE、 PLAYREADY、AES128	FAIRPLAY、 WIDEVINE、AES128
DASH, Segment Type : ts		,	WIDEVINE
DASH, Segment Type : fmp4			

The supported DRM Types for each protocol type and scheme type are shown in the table below:

DRM technology: platform native support

HTML5 browsers :

Browsers	FAIRPLAY	WIDEVINE	PLAYREADY	AES128
Chrome	×	✓ Windows, macOS, Android, ChromeOS, Linux	×	\checkmark

Firefox	×	✓ Windows, macOS, Android, Linux	×	1
Microsoft Edge	×	✓ Windows, macOS, Android	✓ Windows	1
Safari	✓ macOS, iOS, iPadOS	×	×	1

Mobile phones & tablets

Mobile phones & tablets	FAIRPLAY	WIDEVINE	PLAYREADY	AES128
Android	X	1	X	1
iOS / iPadOS	✓	X	X	✓

SDMCDRM

When the Scheme is selected as SDMCDRM:

For the HLS protocol with ts segments: DRM Type can support FAIRPLAY.

For the HLS protocol with fmp4 segments: DRM Type can support FAIRPLAY, WIDEVINE, and PLAYREADY.

For the DASH protocol: DRM Type can support WIDEVINE and PLAYREADY.

Taking the HLS protocol with fmp4 segments as an example, you need to enter the following information.

Cid: The content ID provided by SDMC. If you leave this empty, the channel ID will be used.

Uid: The user ID provided by SDMC.

Secret id: The secret ID provided by SDMC.

Secret key: The secret key provided by SDMC.

Uri: The URL to get the DRM key (provided by SDMC).

Tokenname: The token name for the key URL, which is provided by SDMC. If you leave this empty, token will be used.

CustomDRMKeys

When the Scheme is selected as CustomDRMKeys:

1. For the HLS protocol with ts segments: DRM Type can support FAIRPLAY and AES128.

When selecting FAIRPLAY, please provide the following information:

Cid: The FairPlay content ID. If your DRM system does not use content IDs, enter a custom ID.

Key: The FairPlay encryption key.

Iv: The FairPlay encryption IV.

When selecting AES128, please provide the following information:

Key: The encryption key.

Uri: The URL to get the key.

Iv: The encryption IV.

2. For the HLS protocol with fmp4 segments: DRM Type can support FAIRPLAY, WIDEVINE, PLAYREADY, and AES128. Multiple selections are supported, but AES128 is mutually exclusive with the other three types. When selecting FAIRPLAY, WIDEVINE and PLAYREADY, please provide the following information:

Cid: The content ID. If your DRM system does not use content IDs, enter a custom ID.

Key: The encryption key.

Iv: The encryption IV.

If your DRM system does not provide keys for different tracks, select All Track. If your DRM system provide keys for different tracks, you can configure a separate key ID and key for each track (five track types are supported: AUDIO, SD, HD, UHD1, and UHD2).

When selecting AES128, please provide the following information:

Key: The encryption key.
Uri: The URL to get the key.
Iv: The encryption IV.
3. For the DASH protocol: DRM Type can support WIDEVINE and PLAYREADY.



Cid: The content ID. If your DRM system does not use content IDs, enter a custom ID.

Key: The encryption key.

If your DRM system does not provide keys for different tracks, select All Track. If your DRM system provide keys for different tracks, you can configure a separate key ID and key for each track (five track types are supported: AUDIO, SD, HD, UHD1, and UHD2).

TencentDRM

When the Scheme is selected asTencentDRM:

1. For the HLS protocol with ts segments: DRM Type can support FAIRPLAY and AES128. When selecting FAIRPLAY, please provide the following information:

Cid: The FairPlay content ID. If your DRM system does not use content IDs, enter a custom ID.

Key: The FairPlay encryption key.

Iv: The FairPlay encryption IV.

When selecting AES128, please provide the following information:

Key: The encryption key.

Uri: The URL to get the key.

Iv: The encryption IV.

2. For the HLS protocol with fmp4 segments: DRM Type can support FAIRPLAY, WIDEVINE, and AES128. Multiple selections are supported, but AES128 is mutually exclusive with the other three types. When selecting FAIRPLAY and WIDEVINE, please provide the following information:

Cid: The content ID. If your DRM system does not use content IDs, enter a custom ID.

Iv: The encryption IV.

If your DRM system does not provide keys for different tracks, select All Track. When using WIDEVINE, if your DRM system provide keys for different tracks, you can configure a separate key ID and key for each track (five track types are supported: AUDIO, SD, HD, UHD1, and UHD2).

When selecting AES128, please provide the following information:

Key: The encryption key.
Uri: The URL to get the key.
Iv: The encryption IV.
3. For the DASH protocol: DRM Type can support WIDEVINE.

Cid: The content ID. If your DRM system does not use content IDs, enter a custom ID.

If your DRM system does not provide keys for different tracks, select All Track. If your DRM system provide keys for different tracks, you can configure a separate key ID and key for each track (five track types are supported: AUDIO, SD, HD, UHD1, and UHD2).

Additionally, Tencent Cloud Streaming Services(CSS) offers key management capability for TencentDRM. The interaction process between each product can be referred to in the diagram below.

Note:

Furthermore, The use of the TencentDRM feature will be charged based on the number of DRM License requests. For billing details, please refer to: DRM Encryption.

Forensic Watermark

Last updated : 2025-06-25 16:34:28

Overview

Forensic watermarking technology embeds identification information into audio and video, serving as a "digital fingerprint" for tracking infringement. Forensic watermarks can be divided into visible and invisible watermarks. Invisible watermarks leverage data redundancy without affecting content quality. Video content platforms use them to identify illegal redistributors, ensuring content authenticity and traceability. High-quality invisible traceable watermarks should maintain robustness while preserving video visual quality and avoiding user perception. This requires precise control of watermark embedding strength, for example: utilizing the characteristics of the human visual system (HVS) to embed watermarks in areas where the human eye is less sensitive to visual changes (such as regions with complex textures or high/low brightness), thereby enhancing watermark anti-attack capability while ensuring concealment.

Tencent Cloud Stream Services supports the A/B forensic watermark solution in live broadcasting scenarios. Based on deep learning models, it performs joint modeling of spatial features from video frames and audio spectrum features of real-time live streams, dynamically adding invisible watermarks according to the audio and video content. In StreamLive, the input live stream is transcoded into two output groups. The content segments of these two output groups are respectively tagged with A watermark and B watermark, then output to two channels on the StreamPackage. During the content delivery phase, CDN nodes generate A/B sequences containing unique traceable identifiers (uin) for different terminal users based on user identity. Using this unique A/B sequence, the system retrieves the corresponding content segments with A or B watermark from the StreamPackage origin server. Thus, when content is illegally recorded, Tencent Cloud can extract the A/B segment sequence from the pirated video using the watermark detection network, analyze the viewer's (pirater's) uid, and thereby achieve traceability. For common attack methods—such as screen recording, shooting, or certain levels of video compression, format conversion, editing, brightness adjustment, and contrast adjustment—the watermark can still be successfully extracted.

Forensic watermarking technology, as an advanced security protection measure, can be extensively utilized in various content protection scenarios, such as film and television, variety shows, events, online education, short videos, etc.

Function Configuration Process

1. First, read the documentation: "Implementing Live Streaming" to understand the overall configuration process of Stream Services.

2. Read the documentation: "Configuring StreamPackage" or "StreamPackage Console Guide" to understand how to configure StreamPackage. When using the A/B forensic watermark feature, you need to create two channels in StreamPackage with the same input protocol to receive the two output groups of StreamLive (each is added with an A watermark and a B watermark during transcoding). Then create an endpoint in each channel of StreamPackage. Meanwhile, the manifest names of these two endpoints must be the same. This way, when the CDN retrieves the source from StreamPackage, it can obtain the corresponding A/B content segments from the appropriate endpoint based on the user's unique A/B sequence.

3. Read the documentation: "Configuring StreamLive" or "StreamLive Console Guide" to understand how to configure StreamLive. When using the A/B forensic watermark feature, you need to first create A/B watermarks in watermark management. And when creating an output group, create two output groups: one with the A watermark and the other with the B watermark. At the same time, these two output groups must have the same number of outputs, the same output bitrate settings, and the same output name modifiers. In this way, for the same input live stream, an output group with watermark A and another output group with watermark B are generated, and they are output to the two precreated StreamPackage channels respectively.

4. Read the documentation: "Configuring Cloud Streaming Services (CSS)" to learn how to use Cloud Streaming Services for origin-pull and distribution.

5. After the configuration is complete, you can refer to the API doc: "GetAbWatermarkPlayUrl" to generate the playback URL for the A/B forensic watermark channel.

6. During playback, if piracy is detected, the pirated file can be submitted to Tencent Cloud for analysis and traceability.

For specific configuration steps, refer to the following text.

Configuring a StreamPackage Channel

1. Log in to the StreamPackage Console.

2. Create 2 channels with the Input Protocol set to HLS.

3. For the created channel, go to the **Info** details page and create an endpoint on the **Endpoints** page. Meanwhile, for these 2 created Channels, the **Manifest Name** should be the same.

4. Return to the StreamPackage **Channel** page and record the **ID** of the 2 channels for subsequent StreamLive configuration.

Configuring a StreamLive Channel

1. Log in to the StreamLive Console.

2. Refer to Input Management and configure the StreamLive Input based on your business needs.

3. From the left sidebar, enter the **Watermark** management page, click **Create Template**, select the type as **A/B Watermark**, create an A watermark, and then create a B watermark.

4. Refer to Channel Management, set basic information, add input, set input, and set output group. Two output groups need to be configured here.
Set the first output group

Set the second output group

Set the output group type to HLS_STREAMPACKAGE.

For destination information, fill in the ID of the first channel created in StreamPackage.

Add outputs to the output group. Set the name modifier. Set the transcoding setting.

For each output, associate the A watermark in the configuration of the transcoding template.

In the segment information, the segment duration should not be set too high to avoid excessive recording duration requirements for detection files. It is recommended to use 2000ms.

Set the output group type to HLS_STREAMPACKAGE.

For destination information, fill in the ID of the second channel created in StreamPackage.

Add outputs to the output group. Set the name modifier. Set the transcoding setting.

Note:

For outputs with the same bitrate in the first output group and the second output group, the name modifier must be the same, and the bitrate/frame rate/resolution in the transcoding template must also be the same.

For each output, associate the B watermark in the configuration of the transcoding template.

In the segment information, the segment duration must be consistent with the value in the first output group. Additionally, please note that the segment duration should not be set too high to avoid excessive recording duration requirements for detection files. It is recommended to use 2000ms.

5. Complete the channel configuration in StreamLive.

Configuring CSS to pull from StreamPackage

1. Log in to the CSS console.

2. Refer to the Adding Your Own Domain documentation to add a playback domain in Cloud Streaming Services.

2.1 Select the Type to Playback Domain, and select Outside Chinese mainland for Acceleration region.

2.2 Enable origin-pull mode for this playback domain.

2.3 In the origin-pull configuration, select **StreamPackage** for **Origin Server Type** and select the previously configured StreamPackage region and 2 channels.

2.4 Then scroll down the page to see the URL rewriting settings.

Take this playback URL as an example: http://playdomain.com/live/abwm1/main.m3u8. Refer to CSS playback configuration, playdomain.com is the playback domain name; live is the application name, defaulting to live and can be customized; abwm1 is the stream id, customized by the user to identify the live stream. If the endpoint URLs of the 2 channels already created in StreamPackage are: http://251009588.apmumbai.streampackage.srclivepull.myqcloud.com/v1/0196c756ed0a09dc0f3209c36608/groupA/main.m3u8 http://251009588.ap-

mumbai.streampackage.srclivepull.myqcloud.com/v1/0196c757112409dc0f3209c3660b/groupB/main.m3u8 You can make the following URL rewriting:

Rewrite /live/abwm1/A/ as /v1/0196c756ed0a09dc0f3209c36608/groupA/

Rewrite /live/abwm1/B/ as /v1/0196c757112409dc0f3209c3660b/groupB/

In the URL rewriting settings, enter the following information:

Complete the Configuration and Generate a Playback URL

1. After completing the above steps, you can use the Tencent Cloud API to generate a playback URL with A/B watermark: GetAbWatermarkPlayUrl。

2. Complete all configurations, then launch the channel.

Detect Piracy

After enabling A/B watermark, if piracy is detected, obtain the pirated video file and submit it to Tencent Cloud StreamLive product team for video analysis to perform watermark detection and trace the source of the pirated audience.

1. Video file duration requirement: To ensure detection effectiveness, the submitted video duration must be at least 90 times the segment duration.

 Submission method: Currently, video files can be submitted through the ticket system on the Tencent Cloud official website. Please also include the corresponding StreamLive Channel ID information and Segment Duration details.
 StreamLive Channel ID:

Segment Duration:

Input Failover

Last updated : 2024-07-22 11:57:53

StreamLive provides redundancy and supports failover to help you ensure the reliability of live stream sources. Follow the steps below to configure failover:

1. On the **Channel Management** page, Click **Create Channel**. To configure input failover for an existing channel, click **Edit**.

 General Setting Input Setting Output Group Setting 	General info Create a channel that encodes your input into multiple groups and outputs.			
	Channel name • failover_demo Regularly cleaned ③ ●			
	Tags			

2. Add inputs in the **Input Setting** step. The backup input used for failover must be of the same type as the primary input.

General Setting	Notes:							
2 Input Setting	• If you add multiple inputs, the first input is used by default. Other inputs may be used in failover or when an event in the plan is triggered. You can enable the Input Failover in Input Setting, and the backup input used for failover must be of the same type as the primary input.							
Ť	If you add multiple inputs, you can o	only add inputs that contain the same number	of pipelines.					
3 Output Group Setting	• Please note that after input data is first received, as long as the corresponding channel is in "RUNNING" status, transcoding fees will be incurred. And for the input contains two independent pipelines, both pipelines will incur transcoding fees. Even if no input data is received for a certain period of time, transcoding fees will still be incurred. This is because the system will insert black frames automatically. Only channels whose status is "IDLE" will not incur transcoding fees.							
	Add							
	Input Name	Input Type	Pipeline	Bind Status	Operation			
	rtmppush	RTMP_PUSH	2	-	Details Setting Set as First Delete			
	rtmp	RTMP_PUSH	2	-	Details Setting Set as First Delete			
	Callback Configuration ④ Note: This callback configuration only takes effect for RTMP_PUSH inputs.							
	Input Pipeline Fallover () Note: As long as the channel is in "RUNNING" status, for the input currently in use, each pipeline within the input will incur transcoding fees.							
	Input Loss Behavior()							

3. Find the input for which you want to configure failover and click Setting.

ſ	¢ Settings				×	U) He
	Input Settings					ible the Input Failover in Input Setting, and the backup input
	Input Name rtmppush					I for the input contains two independent pipelines, both
	Failover Settings					e the system will insert black frames automatically. Only
	Input Failover()					
	Audio Selector					Operation
	Audio Selector Name	Туре	Value	Operation		Details Setting i et as First Dele
		PID_SELECTOR V	1-8191	Delete		Details Setting Set as First Dele
	Add Audio Selector					
		Confirm	Cancel			ut will incur transcoding fees.

4. Toggle on **Input Failover** and complete the following settings.

Failover Settings		
Input Failover(
Select Backup Input() *	rtmp	Ŧ
Downtime Threshold (3000	
Input Preference	CURRENT_PREFERRED	Ŧ

5. Select a **backup input** from the inputs bound to the current channel. Specify the downtime threshold, which indicates the time (ms) to wait when there is no data from the primary input before the system switches to the backup input. We recommend you set this to 3000. The lower the downtime threshold, the faster the failover. However, a low

downtime threshold also means there may be a frequent switch of inputs caused by temporary packet loss. At last, specify what you want the system to do after the primary input is recovered. If you select **CURRENT_PREFERRED**, the system will continue to use the current input. If you select **PRIMARY_PREFERRED**, the system will switch back to the primary input if the backup is currently used.

6. Click **Confirm** to return to the **Input Setting** page. You will see that the bind status of the two inputs is now **Primary** and **Backup** respectively.

General Setting	Notes:							
2 Input Setting	• If you add multiple inputs, the first input is used by default. Other inputs may be used in failover or when an event in the plan is triggered. You can enable the Input Failover in Input Setting, and the backup input used for failover must be of the same type as the primary input.							
	 If you add multiple inputs, you 	I can only add inputs that contain the same	e number of pipelines.					
3 Output Group Setting	• Please note that after input data is first received, as long as the corresponding channel is in "RUNNING" status, transcoding fees will be incurred. And for the input contains two independent pipelines, both pipelines will incur transcoding fees. Even if no input data is received for a certain period of time, transcoding fees will still be incurred. This is because the system will insert black frames automatically. Only channels whose status is "IDLE" will not incur transcoding fees.							
	Add							
	Input Name	Input Type	Pipeline	Bind Status	Operation			
	rtmppush	RTMP_PUSH	2	Primary	Details Setting Set as First Delete			
	rtmp	RTMP_PUSH	2	Backup	Details Setting Set as First Delete			
	Callback Configuration ③ Note: This callback configuration only takes effect for RTMP_PUSH inputs.							
	Input Pipeline Failover () Note: As long as the channel is in "RUNNING" status, for the input currently in use, each pipeline within the input will incur transcoding fees.							

7. You have now configured input failover and can continue to configure outputs for the channel. For detailed directions, see "Channel Management - Step 4. Configure Output Groups".
Input Switch

Last updated : 2024-07-22 11:52:36

Input switch allows you to use multiple inputs to enrich live streaming experiences. You can add two PUSH inputs and multiple inputs of other types to a channel. To configure input switch, follow the steps below:

1. On the **Input Setting** page, add the inputs you want to use.

• You	can add up to 5 inputs, inclue	ding 2 PUSH inputs. All the inputs must h	ave the same number of pipelines (1 or 2).		
	man	an ^{atu}			
Input() *	MP4_PULL		2 💌 🥥 🛞		
ut List	Input Name	Input Type	Pipeline	Bind Status	Operation
	rtmp1	RTMP_PUSH	2,0	and a second sec	Details Setting Set as First
	multt_rtp_1	RTP_PUSH	< entry 2	te _{UL} ,	Details Setting Set as First I
	MP4 PULL	MP4 PULL	2		Details Setting Set as First

2. After creating or editing your channel, find the channel on the **Channel Management** page, and click its name to enter the details page. Select the **Plan** tab and click **Create Event**.

StreamLive	← test					
Security Group	Information	Output Group Setting Plan	Alerts	Health	Logs	
Management	Create Event					
Input Management						
	Event Name	Start Time (UTC	+8) 🗘	Start Type		Event Type
Management				Nc	o data vet	
Matermark				- NC		
Management	Total items: 0					1

Create Event			×
Event			
Event Type	Input Switch	Ŧ	
Input Attachment	rtmp1	Ŧ	ø
Basic Information		Q	
Event Name *	rtmp1		
Timing	MP4_PULL multt_rtp_1		
Start Type	Fixed Time	-	
Date (UTC+8)	2022	Ö	
	Confirm Car	icel	

Select from the drop-down list of **Input Attachment** an input you just added to the channel, and specify the **Start Type**. For details, see Plan Management.

Playlist

Last updated : 2022-09-14 11:01:30

Video looping is a typical use case of input switch. For how to configure input switch, see the previous document. You can use this feature to play teasers on loop before a live stream starts or replay a live streaming session repeatedly after it ends.

The video looping feature plays existing videos, so the input type should be **MP4_PULL** or **HLS_PULL**. If your channel is not currently bound with such inputs, add one first before you configure an input switch event. The figure below shows the configuration for a typical input switch event for PULL inputs. You can specify two inputs for failover. Enter a public URL or a Tencent Cloud COS address with public read access.

vame *	file_pull
Type *	MP4_PULL *
InputAddress A *	Please enter the input source url
	From a public-read file From COS of this account
	Please enter the input source un
InputAddress B	Please enter the linput source un

Scheduled Recording

Last updated : 2025-03-21 17:57:07

StreamLive allows you to record live streams for a specified time period. This feature must be used together with Tencent Cloud COS.

Follow the steps below to configure scheduled recording:

1. Go to the COS console to configure the storage of recording files. You can either create a bucket or select an existing bucket. Make sure that the bucket is in the same region as your StreamLive channel. For example, if your StreamLive channel is in Singapore, then the bucket must also be in Singapore.

2. Click the bucket name to go to the configuration page and select **File List** on the left sidebar. Click **Create Folder** to create a folder for the recording files.

Back to Bucket List	/	
Overview	Upload Files Create Folder Incomplete Multip	oart Upload
Basic Configurations	Enter a prefix for searching, Only search for objects in the $\in \mathbf{Q}$	Refresh
Security ~ Management	Object Name \$	Size \$

3. Enter a folder name and splice it to the endpoint URL of the bucket. The result is the address where StreamLive recording files will be saved.

Create Folder		×
Folder Name *	Streamlive-scheduled-record	()
	OK Cancel	

You can view the endpoint URL of a bucket on the **Overview** page.



In the

(ennor	fermal	fermal.		
Endpoint	https://*	Use the	e access domain name	for Intranet access
bernatu	.myqclou	.ap- id.com		
Custom CDN Acceleration Domain Custom Endpoint	Sector State	ternati		
Global Acceleration Endpoint Static Website Endpoint				
Note: COS domains use smart DNS resolved to a private address. Cross address. For details, please see Rec	. If your other Tenc -region access can quest Creation Ove	ent Cloud services not use a private r rviewMore.	access COS, intra-reg network and thus will be	jion access will be e resolved to a publi

name}-\${appid}.cos.ap-mumbai.myqcloud.com/streamlive-scheduled-record . Note it for later
use.

4. Go to the StreamLive console. Click the name of the channel for which you want to configure scheduled recording and select the **Plan** tab.

← Test_C	hannel				
Information	Output Group Setting	Plan	Alerts	Health	Logs
	Create Event				
	Event Name		Start	Time (UTC+8)	\$

5. Click **Create Event** and complete the following settings.

Create Event			×
Event			
Event Type	Time Record		
Basic Information			
Event Name *	Test_StreamLive_Record	\odot	
OutputGroupName *	Test_Output_Grp •	\odot	
ManifestName *	record	.m3u8	${igodot}$
DestinationUrl1 (?) *	https://	\odot	
DestinationUrl2	Please enter the COS Url		
Timing			
Date (UTC+8)	2022-07-17 11:00:25 ~ 2022-07-17	11:01:25	
	Confirm		

Event Type: Select Time Record.

Event Name: Enter a name for the recording event.

OutputGroupName: Select from the drop-down list an output group added to the channel.

ManifestName: The name of the playlist file. For HLS outputs, the file format is M3U8. For DASH outputs, the file format is MPD.

DestinationUrl1: Enter the full COS path (including the bucket name) to save the recording files.

Timing: Specify the time period to record the stream.

6. Click **Confirm**. This concludes the configuration. The channel will record the stream it receives during the specified time period and save the recording files to the specified destination.

Highlights

Last updated : 2024-08-02 14:05:16

For football and basketball event live streams, the StreamLive **Highlights** feature can identify exciting moments in the game and record and save the highlight clips.

Points of Attention

Highlights feature is provided by Media Processing Service (MPS), which means once users enable the Highlights feature in StreamLive channel, the StreamLive backend service will automatically call the MPS backend service. For this reason, you need to follow system guides to activate and authorize MPS; authorization refers to granting MPS the access to StreamLive data. Only after authorization can MPS read live stream data from StreamLive and perform the intelligent analysis for Highlights.

Once MPS obtains live stream data from StreamLive and generates highlights files, the files need to be saved to Tencent Cloud Object Storage (COS). Thus, you need to follow system guides to authorize MPS, granting it access to Tencent Cloud COS. Only after authorization can MPS read COS storage paths and perform write operations on the COS bucket.

Highlights feature will also incur fees from MPS and COS. For details, please refer to: MPS intelligent analysis fee introduction, COS billable items.

Prerequisites for Use

You have activated the StreamLive service.

Configure the Highlights feature

1. Log in to the StreamLive console, the Highlights feature is in the Input Setting page.

General Setting	Notes:						
2 Input Setting	• If you add multiple inputs, the first input is used by default. Other inputs may be used in failover or when an event in the plan is triggered. You can enable the Input Failover in Input Setting, and the backup input used for failover must be of the same type as the primary input.						
	If you add multiple inputs, you can only add inputs that contain the same number of pipelines.						
3 Output Group Setting	 Please note that after input data is first received, as long as the corresponding channel is in "RUNNING" status, transcoding fees will be incurred. And for the input contains two independent pipelines, both pipelines will incur transcoding fees. Even if no input data is received for a certain period of time, transcoding fees will still be incurred. This is because the system will insert black frames automatically. Only channels whose status is "IDLE" will not incur transcoding fees. 						
	Add						
	Input Name	Input Type	Pipeline	Bind Status	Operation		
	Test_input01	RTMP_PUSH	1		Details Setting Set as First Delete		
	 Callback Configuration Input Pipeline Failover Input Loss Behavior Highlights 						
	Previous Save	Next					

2. Enable the feature and configure the parameters.

Highlights (i)			
Storage type (i)	Tencent Cloud Object Storage	(COS)	
Storage path *	07		Select
File name (i)		- {Timestamp} -{StartSecond}	
Timestamp format (i)	Unix UTC(+00:00)		
Audio selector 🛈	Please select	~	

Configuration Item	Description



Highlights Feature	Only after enabling the feature can you configure the relevant parameters. When enabling the switch, the system will verify whether you have granted Media Processing Service (MPS) the permission to read StreamLive data. This is necessary, because only with authorization can MPS read the live streaming data from StreamLive and analyze the exciting moments. If you have already authorized, you can directly turn on the switch. If you have not authorized yet, please follow the system guidance to complete the authorization first before turning on the switch.
Storage type	For the generated highlight clips, storage is required. Currently, only Tencent Cloud Object Storage (COS) is supported.
Storage path	When selecting the storage path, the system will verify whether you have authorized MPS the read and write permissions on Tencent Cloud COS. Only after authorization can MPS read the storage path information and store files in COS. If you have already authorized, you can directly click Select to choose the storage path. If you have not yet authorized, click Select then, and follow the system guidance to complete authorization first, then choose the storage path.
File name	The file name consists of three parts: user-defined name, file generation timestamp, start second. User-defined name: Optional. Allows 1-32 characters consisting of numbers, letters, underscores, or hyphens. If you do not enter a name, the system will default to using the inputID. File generation timestamp: The timestamp can be selected in either Unix or UTC(+00:00) format. Start second: The start time of the highlight is expressed in seconds, relative to the source stream's starting point.
Timestamp format	Supports both Unix and UTC (+0:00) formats.
Audio Selector	If the source stream contains multiple audio tracks, you can set the Audio Selector. And then you can select the configured audio selectors as the audio for the highlight file.

3. After completing the configuration, save it with the other channel information.

4. After starting the channel, you can view the generated files on the **Highlights** tab of the channel details page.

StreamLive	€		-		Edit Start Channel	Stop Channe
Security Group	Information Output Gro	pup Setting Plan Highligh	ts Alerts Health Logs			
단 Input	UTC+08:00 V	Today Yesterday Last 7 days	2024-07-31 00:00:00 ~ 2024-07-31 18:02:43	Confirm		
E Channel						
Watermark	Screenshot	Duration(s)	Generation time	Storage type	Storage path	
			No data yet			
	Total items: 0				10 🗸 / page 🛛 🖌 🚽 1 👘 /	1 page 🕨 🕨

List Information	Description
Screenshot	A screenshot of the highlight segment for reference.
Duration(s)	Duration of the highlight file.
Generation time	Generation time of the highlight file.
Storage type	Currently, only Tencent Cloud Object Storage (COS) is supported.
Storage path	Storage path of the highlight file.

Time shifting

Last updated : 2024-07-22 11:44:53

The StreamLive time shifting feature has been migrated to StreamPackage. For more details, please refer to: StreamPackage Console Guide.

Delayed Playback

Last updated : 2022-09-14 11:01:31

The delayed playback feature is useful if you want StreamLive to ingest input in real time, but do not want to process the content or generate an output immediately. Delayed playback allows you to hold an input for a specified period of time before it's transcoded and packaged for output. Currently, this feature only works for RTMP_PUSH inputs. Follow the steps below to configure delayed playback:

1. Click the input for which you want to configure delayed playback. If the input is bound to a channel that is currently running, you need to stop the channel first.

Basic	Information	Edit
Name	rtmp1	
ID	62DE0B01E	
State	Attached	
Туре	RTMP_PUSH	
Delay	OFF	

2. Click Edit, toggle on Delay Time, and specify the delay time (10-600 seconds).

Edit Input			×
Name *	rtmp1		
Type *	RTMP_PUSH	Ŧ	
Security Group *	new_test	v	
Delay Time			
	300	seconds	
	Between 10 to 600		
Destination A *	live1	streama	
Destination B 🔊	live1	streamb	
Media file bucket is	s cannot be pulled from COS as you created. <u>Click here to check in the C</u>	I have not activated COS or no	
	Confirm Ca	ncel	

Click **Confirm**. Now, instead of generating outputs immediately, the input will be processed only after the specified delay time.

Adaptive Bitrate Streaming

Last updated : 2024-07-22 11:18:47

Adaptive bitrate streaming is a method of streaming over HTTP where the source content is encoded at multiple bitrates or resolutions. Which bitrate is delivered to a player depends on network conditions. This can reduce stutter and improve streaming experiences.

To enable adaptive bitrate streaming, find the target channel on the **Channel Management** page and click **Edit**. Click **Next** until you enter the **Output Group Setting** page. You can configure outputs of different bitrates or protocols on this page. For detailed directions, see <u>Step 4</u>. Configure Output Groups.

The following section shows you how to configure adaptive bitrate streaming for HLS outputs:

1. First, you need to configure transcoding templates. Audio templates only support the AAC codec. Specify the audio bitrate. If the input is a TS file and a PID selector is specified, you can also configure the **Language Code** displayed in the manifest.

Audio Templates	Audio Templa	te 1								Ū
	Name	audio		Acodec	AAC	¥	Audio Bitrate/bps	6000	Y	
	Audio Selector Name	Please select	¥	Language Code ⑦						
	Add Audio Templ	ate								

2. The adaptive bitrate streaming feature is more relevant for videos because videos have higher bitrates and are more likely to be affected by network conditions. The H.264 and H.265 video codecs are supported, and you can choose either of two rate control modes: ABR and CBR. You can also enable **Top Speed Codec Transcoding** to deliver the same viewing experience at lower bitrates. Note that you cannot modify the rate control mode after enabling top speed codec.

nplates	Video Templa	ite 1						
	Name	720	Vcodec	H264	¥	Rate Control Mode ②	ABR	
	Video Bitrate/bps *	2000000	Width	720		Height (2)		
	Fps(2)		Top Speed Codec Transcoding ⑦			Bitrate Compression Ratio ⑦		
	Video Watermark		Video Watermark Template	Please select	Ŧ			
	Video Templa	te 2						
	Video Templa Name	te 2	Vcodec	H264	v	Rate Control	ABR	
	Video Templa Name Video Bitrate/bns.*	te 2 1080 4000000	Vcodec Width (2)	H264	Y	Rate Control Mode (?) Height (?)	ABR	
	Video Templa Name Video Bitrate/bps *	te 2	Vcodec Width ⑦ Top Speed Codec Transcoding ⑦	H264	v	Rate Control Mode ② Height ③ Bitrate Compression Ratio ③	ABR	

3. After configuring the transcoding templates, you can go on to configure multi-bitrate outputs in the **Outputs** area.

Outputs								
Outputs *	Output 1							Ū
	Name	720p	Audio Template Names	✓ audio	Video Template Names	720	1080	
	Scte 35 Setting (?)							
	Output 2							Ē
	Name	1080p	Audio Template Names	🔽 audio	Video Template Names	720 🗸	1080	
	Scte 35 Setting②							
	Add Output							

4. After the configuration, click **Done**. Now, the input of the channel will generate HLS outputs with two bitrates.

Caption Smart Subtitling

Last updated : 2024-07-22 10:38:01

The Smart Subtitling function converts voice information into subtitles by real-time Automatic Speech Recognition (ASR) during live streaming, and subsequently translates them into the target language. Currently, this feature supports four languages: Chinese, English, Japanese, and Korean. In practical applications, please select the appropriate language according to your business needs and audience.

Points of Attention

Currently, the Smart Subtitling feature can only be used in joint transcoding.

The ability to generate the intelligent captions is provided by Media Processing Service (MPS) to StreamLive. When using it for the first time, you need to authorize MPS to access StreamLive's data to generate captions. When using the intelligent caption feature in StreamLive, in addition to StreamLive's live transcoding fees, there will also be speech recognition fees from MPS. Translating across languages will incur speech translation fees from MPS. For specific billing information, please refer to the MPS Billing Document.

Prerequisites for Use

You have activated the StreamLive service.

Configuring Smart Subtitles

1. Log in to StreamLive Console, navigate to Channel Configuration and Configure Output Groups. For the Output you want to configure, click **Setting** to enter Transcoding Settings.

Outputs * Add one or more outputs to this g need to be kept in the same trans	group. Each output has unique stream settings th scoding type (joint transcoding/separate transcod	nat enable you to choose the video, audio, and c ding).	aptions tracks that you need. All outputs in a output grou
Add			
Output Name	SCTE-35 Setting	Transcoding Setting	Actions
output1		Setting	Remove

2. Select Joint Transcoding, and click Add Caption.

Transcoding Setting		×
Transcoding 🕄 🚺 Join	t Transcoding Separate Transcoding	
Add Audio/Video	Add Caption	

3. Scroll to the bottom of the page, and in the **Caption** module, choose the caption source as **Analysis**.

Caption Copy Caption		Re
Name	Please enter the caption name.	
Caption Source	Analysis 💌	
	None	
Confirm Cancel	Analysis	

Note:

Since the feature is provided by MPS to StreamLive, role authorization is required to support MPS in obtaining StreamLive data and generating captions.

When in use, the system will verify if you have authorized it before. If you have, you can directly configure captions.



If you have not authorized before, the system will guide you through role authorization. Once you agree, you can continue configuring captions.

4. Configure caption

Format	Burn in
Source Language	O Chinese English Japanese Korean
Content Type	Source Source + target Target
Target Language	Chinese O English Japanese Korean
Dynamic/Steady State Effect	Real-time Dynamic Subtitles O Delayed Steady State Subtitles 10 💌 sec
Line Spacing	0% 20% 50% 100%
Margins	O 0% 10% 20% 30% 40% 50%
Lines	0 1
Characters Per Line	- 40 +
Font	Source Text Heiti Translated Text Heiti
Color	A
	Font Color Background Color

Configuration Item	Description
Format	Currently, only burn in is supported, which directly merges subtitles into the video.
Source language	It supports recognition of four source languages: Chinese, English, Japanese, and Korean.
Content type	Source: display only source language. Source + Target: display source language and translation language. Target: display only translation language.
Target	Currently, the source language can be translated into three target languages.



Language	
Dynamic/Steady State Effect	Default setting: Delayed Steady State Subtitles. The system will delay the live streaming according to the set time, but the experience of watching complete sentence is better. The default delay time is 10 seconds, with other options including 20 seconds, 30 seconds, and 60 seconds. You can also choose: Real-time Dynamic Subtitles, which has a shorter delay, but the captions will dynamically correct the content word-by-word according to the spoken content.
Line Spacing	The vertical distance percentage represents the ratio of the vertical distance to the vertical width of the subtitles from the bottom of the screen. The vertical position of the subtitles is configured by adjusting the vertical distance percentage. Value range: 0 - 100%.
Margins	The horizontal distance percentage represents the ratio of the horizontal distance to the horizontal width of the subtitles and the side of the screen. The horizontal position of the subtitles is configured by adjusting the horizontal distance percentage. Value range: 0 - 50%.
Lines	Options are 1 or 2, with 1 selected by default. When lines exceed the displayed range, only the latest content will be displayed.
Characters Per Line	Value range: 1-100. Default value: 45. One Chinese character count as one word. One English character or number counts as half a word. The fewer the characters per line are, the larger the font size is.
Font	Options include Heiti, SimSun, Dynacw Diamond Black, and Helvetica. The font selection will vary depending on the Source language and Target language.
Color	The font color is white by default. The color can be customized. The background color is black by default. The customization of level of transparency is supported.

5. Preview

Turn on the preview switch, enter test text, and the preview effect will be displayed according to your previous configuration. Additionally, you can readjust the resolution of the preview screen.



Preview				
Text Subtitle	test the caption feature			
		24		
Preview				
	test the d	caption feature		
	Translation settings do not support previ	iew		
Preview Window	Width: 1920	PX Height: 1280	PX Update	
Size				
Confirm Cancel				

6. Click **Confirm** to save your current Transcoding Configuration and Caption Configuration.

Caption Pass-Through

Last updated : 2024-08-16 16:48:11

StreamLive supports users in the pass-through of CC captions, meaning it can pass through captions from the input source directly to the output.

Points of Attention

Currently, the caption pass-through feature only supports SCTE-128 type caption sources.

Prerequisites for Use

You have activated the StreamLive service.

Configuring Caption Pass-Through

1. Log in to StreamLive Console and navigate toConfigure Inputs under channel configuration. For the input you want to configure, click **Setting** in the **Operation** column.

2. In **Input Settings**, you can find the **Caption Selector** section. Enter the necessary information to extract caption data from the input source.

Ceneral Setting Cinput Setting Cinput Setting Cinput Group Setting	Settings Input Settings Input Name				×	able the Input Failover in Input Setting I for the input contains two independe e the system will insert black frames a
	Audio Selector(j)					
	Audio Selector Name()	Туре()	Value(i)	Operation		Operation
		PID_SELECTOR ~	1-8191	Delete		Detail
	Add Audio Selector					
	Caption Selector					
	Caption Selector Name()	Caption Source Type()		Operation		
	testcaption	SCTE-128	~	Delete		
		Confirm	Cancel		_	

Configuration Item	Description
Caption Selector Name	You can enter 1-32 characters including letters, numbers, and underscores. After setting the caption selector here, you can then select the output caption in the output settings.
Caption Source Type	Currently, only SCTE-128 is supported. This allows the SCTE-128 information from the input source to be used as caption.

3. For the output you want to configure, click **Setting**, then **Add Caption**.

Outp Add need	outs * one or more outputs to this grou d to be kept in the same transcod	p. Each output has unique stream set ling type (joint transcoding/separate tr	tings that enable you to choose the vi anscoding).	ideo, audio, and captions tracks that yo	u need. All outputs in a output gro
A	Add				
Ou	itput Name	SCTE-35 Setting	ID3 Passthrough	Transcoding Setting	Actions
t	estoutput			Setting	Remove

Transcoding Setting		
Transcoding (i) 🛛 🔵 Joi	int Transcoding	Separate Transcoding
Add Audio/Video	Add Caption	

4. Configure the caption according to your needs.

Name	Caption1			
Caption Source	Input	~		
Format	Embedded			
Caption Selector Name (i) *	testcaption	~		

Configuration Item	Description
Name	You can enter 1-20 characters including letters and numbers.



	The detailed parameters of the caption configuration will be saved under this name. To reuse existing parameters, click Copy above.
Caption Source	To pass-through the caption from the input, please select Input as the caption source.
Format	If Input is selected as the caption source, the format currently only supports Embedded .
Caption Selector Name	Select the caption to be output from the pre-set caption selector.

5. Click **Confirm** to save your transcoding and caption configurations.

Relay

Last updated : 2024-07-22 10:56:55

StreamLive allows you to push HLS/DASH streams to an HTTP server using the HTTP PUT method.

On the **Output Group Setting** page, select HLS or DASH as the **Output Group Type** and enter the address of the HTTP server in **Destination**. After the channel is started, the live stream will be pushed to the destination URL in real time.

Edit output group * Group An output group ca	an contain one or many outputs. For each output, you can configure the encoding settings, and add or remove audio, video, and caption tracks.
Output Group name *	hismerger
Output Group type *	HLS Send live video and audio to smartphones, tablets, computers, and other services with HLS.
	DASH Send live video and audio to smartphones, tablets, computers, and other services with DASH.
	HLS_ARCHIVE Archive your live video and audio to Tencent Cloud COS with HLS.
	DASH_ARCHIVE Archive your live video and audio to Tencent Cloud COS with DASH.
	HLS_STREAMPACKAGE Send live video and audio to Tencent Cloud StreamPackage with HLS.
	DASH_STREAMPACKAGE Send live video and audio to Tencent Cloud StreamPackage with DASH.
Destination Information	ation *
Destination Type	Standard 💌

The difference between archiving and relay is that with archiving, the manifest file includes all audio/video files of the channel from the start to the end, but with relay, the manifest file is updated constantly and only includes the latest audio/video files.

The format of the manifest file for HLS and DASH streams is as follows:

HLS: \${Destination}/\${OutputGroupName}.m3u8

DASH: \${Destination}/\${OutputGroupName}.mpd

Relay also supports HTTP authentication. To enable it, toggle on **Authentication** in the **Destination** area and enter the authentication information.

Frame Capture

Last updated : 2024-10-21 17:46:44

StreamLive supports capturing images from live streams at fixed time intervals.

Points of Attention

The frame capture feature will incur fees with a unit price of 0.0176 USD per thousand images. For details, please refer to: StreamLive Billing Document.

If you need to store the images in Tencent Cloud Object Storage (COS), please refer to the billable items in COS. If you need to output the images to a third-party storage service, we will charge relaying fees based on the actual usage. For details, please refer to:StreamLive Billing Document.

The frame capture output group only supports one output.

Prerequisites for Use

You have activated the StreamLive service.

Configuring Frame Capture

1. Log in to StreamLive console, and enter the Output Group Setting page. For the output group, select the type as: **FRAME CAPTURE**.

oonoran ootaniy		
Innut Cotting	frame	
input setting	Edit output group *	
Output Group Setting	An output group car caption tracks.	n contain one or many outputs. For each output, you can configure the encoding settings, and add or remove audio, video, a
	Output Group Name *	frame
	Output Group Type *	HLS
		Send live video and audio to smartphones, tablets, computers, and other services with HLS.
		DASH
		Send live video and audio to smartphones, tablets, computers, and other services with DASH.
		Archive your live video and audio to Tencent Cloud COS with HLS.
		DASH_ARCHIVE
		Archive your live video and audio to Tencent Cloud COS with DASH.
		HLS_STREAMPACKAGE
		Send live video and audio to Tencent Cloud StreamPackage with HLS.
		DASH_STREAMPACKAGE
	<u>ا</u>	
		FRAME CAPTURE Send a series of frame centure files to the object storage service
		Conta a sones of name capture files to the object storage sonnee.

2. Fill in at least one output destination.

If you need to output the images to Tencent Cloud Object Storage (COS), select the destination type as: **Tencent Cloud COS**.

Destination Informa	tion *		
Destination Type	Tencent Cloud COS ~]	
Storage Path *			Select
File Name (i) *	Enter the base file name	- {Timestamp}.jpg	
Timestamp Format	Unix UTC(+00:00)		

Configuration Item	Description



Storage path	 When selecting the storage path, the system will verify whether you have authorized StreamLive the read and write permissions on Tencent Cloud COS. Only after authorization can StreamLive read the storage path information and store images in COS. If you have already authorized StreamLive with read and write permissions on COS, you can directly click Select to choose the storage path. If you have not yet authorized StreamLive with read and write permissions on COS, after clicking Select , please follow the system prompts to complete the authorization and then choose the storage path.
File Name	The file name consists of two parts: base file name, file generation time. Base file name: Required, supports input of 1-32 characters including numbers, letters, underscores, and hyphens. File generation time: Supports both Unix and UTC (+0:00) formats, which can be set in the timestamp format .
Timestamp format	Supports both Unix and UTC (+0:00) formats.

Note:

Please ensure the storage path + file name is unique. If two frame capture outputs have the same storage path + file name and are generated simultaneously, the generated image files may overwrite each other. If you need to export images to AWS S3, choose the destination type as: **Amazon S3**.

Destination Type	Amazon S3	
	Create a subaccount, and output bu	ckets on the AWS S3 console.
Subaccount *	Enter the secret ID	Enter the secret key
Output S3 Bucket *	Enter the S3 region	Enter the name of the S3 bucket
	For example ap-southeast-1	
Output File Path (i)		
File Name (i) *	Enter the base file name	- {Timestamp}.jpg
Timestamp Format	O Unix UTC(+00:00)	

Configuration Item Description



Subaccount	In AWS Identity and Access Management (IAM), create a sub-account via 'Add users', grant the sub-account the corresponding S3 bucket permissions. Record the Access key ID and Secret access key, and enter them here as the secret ID and secret key. For details, refer to: Configure AWS Sub-account and Policy
Output S3 Bucket	S3 Region: Enter the region where the S3 bucket is located. Use the following format 'ap-southeast-1'. S3 bucket name.
Output File Path	Enter the folder directory path, starting and ending with /. For example: /output/. If not entered, the root directory of this S3 bucket will be used by default.
File Name	The file name consists of two parts: base file name, file generation time. Base file name: Required, supports input of 1-32 characters including numbers, letters, underscores, and hyphens. File generation time: Supports both Unix and UTC (+0:00) formats, which can be set in the timestamp format .
Timestamp format	Supports both Unix and UTC (+0:00) formats.

3. Set the output name, supporting 1-32 letters, numbers, and underscores. Ensure the uniqueness of the output name under the Channel. Then, you can click **Setting** to set frame capture parameters. And please note, the frame capture output group only supports one output.

Outputs * A frame capture output group can contain only one output.					
Add					
Output Name	Stream Setting	Actions			
Output1	Setting	Remove			

4. Go to the **Setting** page for detailed parameters configuration.

Stream Setting		
Add Setting		
Frame Capture Copy		Remove
Name 🛈 *		
Width 🛈		
Height 🛈		
Capture Interval Units *	SECONDS 💌	
Capture Interval *	10	
 Scaling Settings 		
Scaling Behavior 🛈 Sharpness 🛈	DEFAULT ▼ - 0 +	

Configuration Item	Description
Name	The following detailed parameters will be saved under this name. You can enter 1-20 characters consisting of letters and numbers. You can also reuse existing parameter template by clicking Copy above.
Width,Height	Enter the resolution of the output image, specifying width and height separately. If left blank or set to 0, the resolution will follow the source image. If a value is entered, it must be an even number between 0 and 3000.
Capture Interval Units	Currently, only SECONDS is supported.
Capture Interval	You can enter a positive integer between 1 and 3600, representing 1-3600 seconds.

Scaling Behavior	When there is a discrepancy between the source stream resolution and the set output resolution, you can define the image scaling behavior: DEFAULT: Insert black boxes around the image to provide the specified output resolution. STRETCH_TO_OUTPUT: Stretch the image to the specified output resolution.
Sharpness	Changes the strength of the anti-alias filter used for scaling. 0 is the softest setting, 100 is the sharpest. A setting of 50 is recommended for most content.

5. Click **Confirm** to save the current configuration.

Configure AWS Sub-account and Policy

1. Create a policy

1.1 Go to the AWS Console's **Identity and Access Management (IAM)** module, click **Policies**, and then click **Create policy**.

Identity and Access × Management (IAM)	IAM > Policies	
	Policies (1033) Info 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>
Dashboard		
▼ Access management	Policy name ∇ Type	▽ Used as ▽ Description
User groups	O 🖽 1951 Custor	mer managed None
Users	O 🕀 Custor	mer managed None
Policies	O	mer managed Permissions policy
Identity providers	Custo	mer managed Permissions policy
Account settings	CloudFrontRealtimeLogConfigRole-stream_aryzap	mer managed Permissions policy

1.2 Choose the JSON tab. For StreamLive to access the S3 bucket, only the **PutObject** permission needs to be granted. Fill the ARN of the S3 bucket into the **Resource** field in the JSON.

Note:

The S3 ARN information can be found in the Properties section of the corresponding AWS S3 bucket.

```
In Resource of the JSON, make sure you attach /* to the S3 ARN. For example, if your S3 ARN is
```

```
arn:aws:s3:::thebucketname , enter arn:aws:s3:::thebucketname/* .
```

If you want to grant PutObject permission only to a specific bucket, you can refer to the following:

```
{
    "Version": "2012-10-17",
```

```
"Statement": [
    {
        "Sid": "Statement1",
        "Effect": "Allow",
        "Action": [
            "s3:PutObject"
        ],
        "Resource": [
            "arn:aws:s3:::thebucketname/*"
        ]
     }
]
```

If you want to grant PutObject permission to all your S3 buckets, you can refer to the following:

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "Statement1",
            "Effect": "Allow",
            "Action": [
               "s3:PutObject"
            ],
            "Resource": [
               "*"
            ]
        }
    ]
}
```

1.3 Enter the **Policy name** and then click **Create policy** to complete creation.

Review polic	;y		
	Name*	tencent_policy	
		Use alphanumeric and '+=, @' characters. Maximum 128 characters.	
Description			
		Maximum 1000 characters. Use alphanumeric and '+=,,@' characters.	

2. Create a sub-account and associate policy



2.1. Go to the AWS Console's **Identity and Access Management (IAM)** module, click **Users**, and then click **Add users** to add a user.

Identity and Access 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) Info An IAM user is an identity with long-ter	m credentials that is used to interact	with AWS in an account.			2 Delete Add ut
 Access management 		Q. Find users by username or acces	s key				< 1 >
User groups							
Users		User name	▽ Groups	▽ Last activity	▽ MFA	▽ Password age	
Roles					None	None	43 davs ado
Policies						.10110	Jujo ugo

2.2. Enter **User name** and click **Next**.

2.3. Click **Attach existing policies directly**, type in the search box the name of the policy you just created, and select the policy. Then continue to complete the creation of the sub-account.

3. Obtain the sub-account's Access key ID and Secret access key

3.1. Go to the sub-account details page, click **Security credentials > Access keys > Create access key.**

IAM > Users > tf1-sqsnotify-test							
tfl_caspotify_tost							
ti i -sqsilotil y-test							
Summary							
ADM	Controllo accorr		Access lieu 1				
an:aws:iam::436808682493:user/tf1-sqsnotify-test	Disabled		Not enabled				
Crosted	Last searale size in		Access low 2				
March 10, 2023, 10:46 (UTC+08:00)	-		Not enabled				
Permissions Groups Tags Security credentials Access Advisor							
Console sign-in					Enable console		
Console sign-in link		Console password					
En urbs// +2000002+2533ginitationation/conjection		Hot chabed					
Multi factor autheritication (MEA) (0)				Demons	Autin MEA		
Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an M	FA device. Each user can have a maximum of 8 MFA devices assigned.	Learn more 🖉		Remove	Assign MPA		
Device type	Identifier		Created on				
	No MFA devices. Assign an MFA device to in	mprove the security of your AWS environment					
	Assign	MFA device					
Access keys (0)					Create acc		
Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS	API calls. You can have a maximum of two access keys (active or inac	tive) at a time. Learn more 🛃					
	No ac	ccess keys					
As a best practice, avoid using long-term credentials like access keys. Instead, use tools which provide short term credentials. Learn more 🖒							
Create access key							

3.2. Select **Other** and click **Next**. Note the Access key ID and Secret access key.

O Command Line Interface (CL) You plan to use this access key to enable the AWS CLI to access your AWS account.	
) Local code 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 ECS, 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.	


SCTE-35

Last updated : 2024-07-22 10:54:39

You can configure StreamLive to pass through SCTE-35 messages.

SCTE-35 messages are only carried by MPEG-2 TS inputs. Therefore, StreamLive can only pass through SCTE-35 messages for RTP_PUSH, UDP_PUSH, or SRT_PUSH inputs.

Find the target channel and click **Edit** to go to the **Output Group Setting** page. Find the output for which you want to configure SCTE-35 pass-through, and toggle on **Scte 35 Setting**.

utputs * dd one or more outputs to	o this group. Each output has unique st	ream settings that enable you to choo	ose the video, audio, and captions track	s that you need. All outputs in a output g
Add	e canseoung type (joint transcoung/st	paraic sanocoung).		
Output Name	SCTE-35 Setting	ID3 Passthrough	Transcoding Setting	Actions
720p			720p	Remove
1080p			1080p	Remove
4K			4К	Remove

It's not enough to just enable SCTE-35 pass-through. For SCTE-35 messages to be visible in the output, you must also include PES payloads of the SCTE-35 messages in the input.

After enabling pass-through, you can use SCTE-35 messages to insert ads into different outputs.

PDT (HLS)

Last updated : 2022-09-14 11:01:31

You can configure EXT-X-PROGRAM-DATE-TIME tags for the output media manifest of HLS streams to associate the first media segment with an absolute date and time. The format is as follows:

1 #EXT-X-PROGRAM-DATE-TIME:<date-time-msec>

The format of date-time-msec is ISO/IEC 8601:2004 [ISO_8601] (YYYY-MM-DDThh:mm:ss.SSSZ). It must specify the time zone and have a millisecond precision.

Insert PDT tags in HLS streams. Find the target channel and click **Edit** to go to the **Output Group Setting** page. You can configure EXT-X-PROGRAM-DATE-TIME tags only if the **Output Group Type** is HLS, HLS_ARCHIVE, or HLS_STREAM_PACKAGE.

In the Segment Information area, toggle on PdtInsertion and specify the interval (seconds) to insert the tags.

Segment Info	rmation
Segment Type	ts v
Segment Duration	4000 Between 1000 and 30000, only be a n
Segment Number	5 Between 1 and 300
PdtInsertion PdtDuration	600
are a differ	Between 1 and 3000
H.265 Packaging Type (j	Please select the segment type 🔻

After the configuration, start the channel. When input is available, you will see PDT tags in the output M3U8 streams, which are inserted every 600 seconds.

Archiving (Recording)

Last updated : 2024-07-22 10:52:24

StreamLive allows you to save HLS/DASH streams to Tencent Cloud COS.

On the **Output Group Setting** page, select HLS_ARCHIVE or DASH_ARCHIVE as the **Output Group Type** and enter the COS address to save streams in **COS Destination**. After the channel is started, the live stream will be archived to COS in real time.

	Edit output group *	
Output Group Setting	An output group car	n contain one or many outputs. For each output, you can configure the encoding settings, and add or remove audio, video, and caption tracks.
	Output Group name *	test
	Output Group type *	
		DASH
		Send live video and audio to smartphones, tablets, computers, and other services with DASH.
		O HLS_ARCHIVE Archive your live video and audio to Tencent Cloud COS with HLS.
		DASH_ARCHIVE Archive your live video and audio to Tencent Cloud COS with DASH
		O HLS_STREAMPACKAGE
		Send live video and audio to Tencent Cloud StreamPackage with HLS.
		DASH_STREAMPACKAGE Send live video and audio to Tencent Cloud StreamPackage with DASH.
	Destination Informa	tion *
	COS Destination A	
	COS Destination B	Please enter the destination un

The difference between archiving and relay is that with archiving, the manifest file includes all audio/video files of the channel from the start to the end, but with relay, the manifest file is updated constantly and only includes the latest audio/video files.

The formats of the main manifest file for HLS and DASH streams are as follows:

HLS: \${COS Destination}/\${region}/\${ChannelId}-\${p0 or p1}/\${OutputGroupName}/\${OutputGroupName}.m3u8 DASH: \${COS Destination}/\${region}/\${ChannelId}-\${p0 or p1}/\${OutputGroupName}/\${OutputGroupName}.mpd

Dolby Audio

Last updated : 2024-10-17 15:10:05

Dolby Audio can provide excellent sound effects for TV and movie, live sports events, major events, and premium channels. Dolby Atmos can achieve a more realistic and immersive sound experience. If you have such needs, you can configure it in StreamLive. StreamLive currently supports the passthrough of three formats of input audio: AC3 (Dolby Digital), EAC3 (Dolby Digital Plus), and EAC3+ATMOS (Dolby ATMOS) to channel output.

Directions

1. Log in to the StreamLive console, and enter the Output Group Setting page to configure the transcoding parameters.

2. For the output requiring passthrough of AC3 (Dolby Digital), EAC3 (Dolby Digital Plus), and EAC3+ATMOS (Dolby ATMOS) audio, click **Transcoding Setting**.

Add one or more outputs to this group. Each output has unique stream settings that enable you to choose the video, audio, and captions tracks that you need. All ou need to be kept in the same transcoding type (joint transcoding/separate transcoding).	utputs in a output grou
Add	
Output Name SCTE-35 Setting ID3 Passthrough Transcoding Setting Actions	
output1 Setting Remove	

3. In the transcoding settings, set **Acodec** to **Passthrough**. This feature can be supported in both joint transcoding and separate transcoding.



Iscoding ① O Joint Tra	Iscoding Separate Transcoding	
Audio/Video Copy Audio	Video	
Name	Please enter the audio/video nam	
Audio Transcoding		
O Single track	ulti track()	
Audio Selector Name	Please Select 🗸	
	Passthrough	

anscoding Setting		
anscoding (i) 🛛 Joint Tran	scoding 🔵 Separate Transcoding	
Add Video Add Aud	lio Add Caption	
Audio Copy Audio		Remo
Name	Please enter the video name	
Audio Selector Name	Please Select V	
Acodec	Passthrough ~]
2	Anscoding Setting Inscoding ① Joint Tran Add Video Add Aud Audio Copy Audio Name Audio Selector Name Acodec	Anscoding Setting Inscoding Joint Transcoding Separate Transcoding Add Video Add Audio Add Caption Audio Copy Audio Name Please enter the video name Audio Selector Name Please Select Acodec Passthrough

4. After completing the settings of other parameters, save the overall channel configuration information.

Output To YouTube

Last updated : 2024-10-17 15:12:45

If you need to output the StreamLive HLS live stream to YouTube, please read: Live stream on YouTube: Set up an HLS stream.

Refer to YouTube's requirements, please ensure that the configuration in StreamLive meets the following requirements:

1. The Output Group can only contain one Output.

2. Directly paste the YouTube live streaming address into the StreamLive's **Destination Information**, no need to change the address.

- 3. When setting transcoding parameters, use the **Joint Transcoding**.
- 4. Please use the **Single track**. Multi track is not accepted by YouTube
- 5. Codec for output audio must be AAC, AC3, or EAC3.
- 6. Codec for output video must be H.264 or H.265.
- 7. Segment Duration should be 1-4 seconds, with Segment Number no more than 5.
- 8. **Segment Type** must be ts, and fmp4 is not allowed.

Ad Insertion

Last updated : 2022-09-14 11:01:31

You can use StreamLive to insert ads into live streams. We offer the following ad insertion solutions:

1. Input switch

Bind a video file or live streaming URL as an input to your channel. On the **Plan** page, create an input switch event to insert the video or live stream at a specified time or immediately after configuration. The figure below shows you how to insert a video file into the live stream at a specified time.

Create Event			×	
Event				
Event Type	Input Switch	Ŧ]	
Input Attachment	MP4_PULL	Ŧ	${\boldsymbol{ \oslash}}$	
Basic Information	I.			
Event Name *	ad_insert		⊘	
Timing				
Start Type	Fixed Time	Ŧ		
Date (UTC+8)	2022-(Ö		
	Confirm			

StreamLive will switch to the video file at the specified UTC time to play the ad. After the ad is finished, StreamLive will switch back to the original live stream. The entire process is executed automatically without the need for human intervention.

2. SCTE-35

If your input is MPEG-2 TS streams, you can also include SCTE-35 payloads in the input. StreamLive will recognize the payloads and convert them into information that can be displayed in outputs. A standard method is used for players to recognize the information and switch to the ad. You only need to enable SCTE-35 pass-through for the corresponding output. For details, see the "SCTE-35" document.

StreamLive Tag

Last updated : 2024-07-24 11:45:31

Tencent Cloud Tag is a cloud resource management tool that allows you to use different standards to categorize, search for, and aggregate cloud resources having the same attributes. A tag consists of a tag key and tag value. You can create a tag and bind it to your cloud resources. A tag key can have multiple tag values, and a key-value pair can be bound to multiple resources.

StreamLive Tag

In StreamLive, our resources are channels. You can bind tags to StreamLive channels.

Prerequisites for Use

You have activated the StreamLive service.

If you operate through the Tencent Cloud console, you can directly bind tags to StreamLive channels in the console. If you access via the Tencent Cloud API, you need to authorize StreamLive first, granting StreamLive read and operational permissions for tag data. Only after authorization can you use tags in StreamLive API.

Method 1: Console

- 1. Refer to the Tag Operation Guide to create tags.
- 2. When creating a StreamLive channel, you can **add tags** in **General Setting**.

General Setting					
General Setting	General info				
Input Setting	Create a channel that enco	odes your input into multiple g	roups and outputs.		
Output Group	Channel name *	Please enter the channel nam	e.		
Setting	Regularly cleaned ()				
	Tags				
	Tags are used to mana	age resources by category in di	fferent dimensions. If the existin	g tags don't meet your requirements,	you can <u>mana</u>
	Tags are used to mana	age resources by category in di	fferent dimensions. If the existin	g tags don't meet your requirements,	you can <u>mana</u>
	Tags are used to mana	age resources by category in di	fferent dimensions. If the existin	g tags don't meet your requirements,	you can <u>mana</u> g
	Tags are used to mana Tag Key Tag Key	age resources by category in di Tag Value Tag Value Tag Value	fferent dimensions. If the existin	g tags don't meet your requirements,	you can <u>mana</u>
	Tags are used to mana Tag Key Tag Key + Add O Paste	age resources by category in di Tag Value Tag Value Tag Value	fferent dimensions. If the existin	g tags don't meet your requirements,	you can <u>mana</u>
	Tags are used to mana Tag Key Tag Key + Add ③ Paste	age resources by category in di Tag Value Tag Value	fferent dimensions. If the existin	g tags don't meet your requirements,	you can <u>mana</u>

3. After creating the channel, you can view **Tags** in the channel List. If you need to edit tags, click **Edit** to enter the **Channel Edit Page**.

StreamLive	Channel Managem	ent 🔇 Mumbai 🔻			Documentation G
🗑 Security Group	Create Channel			Search by Channel	Name or ID
Input	Name ‡	State T	ID	Tags	Operation
Channel Watermark		IDLE		Ø 2	Edit Start Delete Export C
	-	IDLE		\bigtriangledown	Edit Start Delete Export C
	-	IDLE		\bigtriangledown	Edit Start Delete Export C
	-	IDLE		\bigcirc	Edit Start Delete Export C

Method 2: API

1. In Tencent Cloud Access Management, select Roles, and find the StreamLive service role **MDL_QCSRole** in the page.

Cloud Access Management	Roles			
Dashboard				
Users	 Why are there new i When you perform a 	roles in my account? specific action in a service, such as a	uthorizing to create service roles, the	service may create service-linked roles for you. Or, if you have been using a service before it support
User Groups	0.1.01			
Policies	Create Role			
Roles	Role Name	Role ID	Role Entity	Description
Identity Providers				
Access Key	MDL_QCSRole	4611686028425392824	Product Service - mdl	The current role is the MDL service role, which will access your other service r

2. Enter the details page for MDL_QCSRole, and click **Associate Policy**.

Role Info					
Role Name	MDL_QCSRole				
RoleArn	qcs::cam::uin/20001948991	9:roleName/MDL_QCSRole			
Role ID	4611686028425392824				
Description	当前角色为 媒体直播 服务的	角色,该角色将在已关联策略的权限	灵范围内访问您的其他云服务资源。	1	
Creation Time	2024-07-21 15:48:20				
Tag Permission	No tag 🖍 Role Entity (1)	Revoke Session Servic	e		
Permission • Permission	No tag 🌶 Role Entity (1)	Revoke Session Servic	e		
Permission Permission Permission Associate a poli Associat Search for	No tag Role Entity (1) as Policy cy to get the action permission re Policy Disassociate policy	Revoke Session Servic	e ociating a policy will result in losin	g the action permissions in th	ne policy. Simu
Permission Permission Permission Associate a poli Associat Search for Polic	No tag Role Entity (1) The Policy ty to get the action permission the Policy Disassociate policy y Name	Revoke Session Servic ons that the policy contains. Disasso Policies Q Description	e ociating a policy will result in losin Session Expiration Time ()	g the action permissions in th Association Time	ne policy. Simu Operation
Permission Permission Permission Associate a poli Associat Search for Polic Qclo	No tag Role Entity (1) Is Policy cy to get the action permission re Policy Disassociate re policy y Name udAccessForMDLRoleInLive	Revoke Session Servic ons that the policy contains. Disasse Policies Q Description This policy is for the MDL serv	e pociating a policy will result in losin Session Expiration Time (j)	g the action permissions in th Association Time 2024-07-21 22:40:57	ne policy. Simu Operation Disassociate

3. Then add the policy **QcloudTAGFullAccess** to MDL_QCSRole, in order to grant StreamLive the read and operation permissions on tag data.

t Policies (4 Total)				1 selected	
	(3 Q		Policy Name	Policy Type
Policy Name	Policy Type 🔻	,		OcloudTAGFullAccess	
QcloudTAGFullAccess	Drocat Daliay			Full read-write access to TAG	Preset Policy
Full read-write access to TAG	Freset Folicy				
QcloudTAGReadOnlyAccess	Preset Policy				
Read-only access to TAG	reserving		+		
QcloudTIONEReadOnlyAccessContainMultiservice	Preset Policy				
Iencent Cloud II platform II-ONE read-only access rights, including					
QcloudAccessForTaaSlinkedRole	Preset Policy				
laab specifies the permission to access VPC and lag services,					

4. You can use the following APIs to bind tag to StreamLive channel:

CreateStreamLiveChannel ModifyStreamLiveChannel

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