

# StreamPackage

## Console Guide Product Documentation





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## Console Guide

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## Overview

StreamPackage is a high-quality video packaging and origin platform. It offers professional, stable, secure, and easyto-use video packaging and delivery services globally and helps you enhance origin resilience. You can use StreamPackage to securely and reliably distribute video streams at a large scale.

StreamPackage manages tasks at the channel level. It packages compressed and encoded audio and video tracks into certain formats for distribution.

## **Console Overview**

The StreamPackage console provides a rich set of easy-to-use and flexible features. It manages tasks at the channel level and functions through four main sections: channel, input, endpoint, and CDN.

StreamPackage	Channel Management	🔇 Mumbai 👻				
Channel Management	Create Channel	Delete				
	Name <b>\$</b>	Inp	ut Protocol 🗡	ID		Input URL
		HLS	5	Pressed Press	Ē	Nopur Schwedolugi mundourrechysiola Nopur Schwedolugi mundourrechysiola
	E 96.09	HLS	5	PRINCIPAL	6	Wip./10148001.apmaniationstapada Wip./10148001.apmaniationstapada
	CLINN	DAS	SH	POMPATIMATIN	Ē	Nip.(1014800) aprovidual markapada Nip.(1014800) aprovidual markapada
	- 1,000	HLS	5	STO MERCONCERCIO	6	hepumeen een aan munitalina diasada hepumeen ee ee munitalina diasada
	in and a	DA	SH	5-054224900008	Б	Neguri of 144000 api munital madiguda Neguri of 144000 api munital madiguda
		DAS	SH	PERMIT	6	Niguri 10144000 ap munisurrectigada Niguri 10148001 ap munisurrectigada
		HLS	5	PHONESER	5	Wip./10148000.apmonisticssispada Wip./101486000.apmonisticssispada
		HLS	5	P DATES AND A DESCRIPTION	Б	Nip (110 table), green tabailigade Nip (110 table), green tabailigade
	Total items: 18					

## Prerequisites

You have a domain for playing videos from CDNs (if you want to use Tencent Cloud's live streaming CDN for content distribution).

You have activated CSS.

You have logged in to the StreamPackage console.

## Directions

#### 1. Select an AZ

Currently, StreamPackage services are available in Mumbai (India), Bangkok (Thailand), Seoul (South Korea), Tokyo (Japan), Frankfurt (Germany), and Singapore. If you want to deploy your business in other regions, please contact us.

Channel Management	🔇 Mumbai 👻	
	Asia	Europe
	Bangkok	Frankfurt
	Mumbai	
	Seoul	
	Tokyo	
	Singapore	

#### 2. Create a channel

A channel holds basic information about inputs and outputs. You can configure a channel to receive live streams that use a specific protocol. You can also create endpoints to generate content to be distributed.

1. Click Create Channel.

2. Enter a channel name and select an input protocol (HLS and DASH are supported).

Name *	test	$\odot$	
Input Protocol *	HLS 💌		
HLS Setting			
Max Segment Duration (sec) 🚯 *	15	$\odot$	
Max Playlist Duration (sec) 🛈 *	600	${\boldsymbol{ \oslash}}$	

3. Complete other HLS/DASH settings.

**Max Segment Duration** indicates the maximum duration of HLS TS segments or DASH M4S segments pushed to this channel. The default is 15 seconds.

**Max Playlist Duration** indicates the maximum total duration of the HLS M3U8 or DASH MPD playlist pushed to this channel. The default is 600 seconds.

#### Note

If you are sending two streams, one primary stream and one backup stream, to the channel for failover, we recommend you set **Max Segment Duration** slightly longer than actually needed. 4. Click **Create**.

#### 3. View channel information

#### Viewing channel information

After the channel is created, you will be directed to the channel details page (you can also go to the details page by clicking the channel name or **Info** on the right). This page displays the channel's name, ID (automatically generated), input protocol, and other settings. StreamPackage will generate two inputs of the specified protocol for the channel.

Channel Management	Channel Management							
Create Channel Dele	te							
Name \$	Input Protocol 🔻	ID		Input URL				
test	HLS		6	1111				

#### **Viewing inputs**

An input is the basic unit of the content StreamPackage receives. After a channel is created, StreamPackage will automatically generate two inputs as well as two input URLs for the channel. You can send streams to the URLs.

← test						
Infomation	Input	Endpoints	CDN			
Item		Input Protoc	ol	Input Url		Authentica
input1		HLS			Б	OFF
input2		HLS			6	OFF
Total items: 2						1

You can enable authentication for an input: Click **Authentication** in the **Operation** column. StreamPackage will generate a username and a password for HTTP authentication. Click **Rotate credentials** to complete the configuration.

input1 authentication	×
Input Authentication	
Username	
Password 6	
Rotate credentials	

#### Note

Once you rotate credentials, the existing credentials of the channel will become invalid.

#### Creating an endpoint

You can create endpoints for a channel so that streams can be pulled from the channel.

1. Click Create Endpoint.

← test				
Infomation Ir	nput <b>Endpoints</b>	CDN		
Create Endpoint	Delete			
Name \$	Endpoint Pr	rotocol Url		Authentica
			No data yet	
Total items: 0				

2. Enter an endpoint name. The endpoint type is the same as the channel's input type by default. If the input type is HLS, you can also select CMAF as the endpoint type. This means StreamPackage can package HLS streams into CMAF streams (DASH).

Name	Please enter the endpoint name.	
Туре	HLS	-
Manifest Name 访	HLS	
IP Restriction	CMAF	
AuthKey		
Time-shifted Viewing 🚯		
	Create	

If you want to modify the Manifest Name, please enter the name in "Manifest Name", the default value is main.

Create Endpoint		×
Name	Please enter the endpoint name.	
Туре	HLS •	$\odot$
Manifest Name 🛈	main .m3u8	
IP Restriction		
AuthKey		
Time-shifted Viewing 🛈		
	Create Cancel	

#### Note

HLS repackaging into CMAF (DASH format) does not currently support DRM inputs. If the input HLS m3u8 contains

SCTE-35 tags, these SCTE-35 tags will not appear in the repackaged CMAF manifest.

3. You can also enable IP allowlist/blocklist and AuthKey if necessary.

IP allowlist/blocklist: Allow only specific IP address ranges to push or disallow specific IP address ranges to push. AuthKey: Perform authentication using the HTTP header field X-TENCENT-PACKAGE.

Name	Please enter the endpoint name.	
Туре	HLS	
Manifest Name 🛈	main	.m3u8
IP Restriction		
	O IP Allowlist	
	Please add one or more IPs (sepa allowlist, such as "192.168.0.1/24"	rated by semicolons) to endpoin or "192.168.0.1/24;192.168.0.2/
AuthKey	Please add one or more IPs (sepa allowlist, such as "192.168.0.1/24"	rated by semicolons) to endpoin or "192.168.0.1/24;192.168.0.2/
AuthKey	Please add one or more IPs (sepa allowlist, such as "192.168.0.1/24"	rated by semicolons) to endpoin or "192.168.0.1/24;192.168.0.2/

4. If you need the timeshift feature, you can enable the "Time-shifted Viewing" to activate it.



Startover Windows : Set how long StreamPackage will support time-shifted viewing for the content. Default value is 1 day, and 3days, 7 days, 15 days and 30 days are also supported.

Once timeshift is enabled, live segments will be saved in the cloud, and you can watch them with timeshift by adding specific parameters to the Endpoint URL. The parameters are as follows:

timeshift=1, Indicates that you want to watch TimeShift stream.

start=xxx, indicating the start time of the timeshift. It supports either the ISO 8601 dates format or the POSIX (or Epoch) time format.

end=xxx, indicating the end time of the timeshift. It supports either the ISO 8601 dates format or the POSIX (or Epoch) time format.

Please note:

If both start and end are specified, end must be greater than start, otherwise a 400 error will be returned.

The start time must be within the Startover Windows range, otherwise a 400 error will be returned.

Only a maximum of 24 hours of timeshift content can be returned. This means that the time difference between end

and start cannot exceed 24 hours, otherwise a 400 error will be returned.

Example timeshift URLs:



Request timeshift content from 2023-07-01T00:002 to 2023-07-01T23:59:59Z:



http://domain/v1/path/subpath/playlist.m3u8?timeshift=1&start=2023-07-01T00:00:00Z&

or





http://domain/v1/path/subpath/playlist.m3u8?timeshift=1&start=1688169600&end=168825

Request live content starting from 2023-07-01T00:00:00Z until the end of the live stream:





http://domain/v1/path/subpath/playlist.m3u8?timeshift=1&start=2023-07-01T00:00:00Z

or





http://domain/v1/path/subpath/playlist.m3u8?timeshift=1&start=1688169600

#### Note

CMAF type time-shifting does not currently support SCTE-35.

5. Click **Create** and the endpoint is created. You can modify or delete the endpoint. From the endpoint URL generated, you can pull streams and distribute them.

Infomation	Input	Endpoints	CDN		
Create Endpoint	Dele	te			
Name \$		Endpo	int Protocol	Url	Authenticat
test		HLS			 þ.
Total items: 1					1

#### **Configuring a CDN distribution**

You can create a CDN distribution for a StreamPackage channel to distribute the streams in the channel via Tencent

Cloud's live streaming CDN. To achieve this, you need to activate CSS and grant CSS access to StreamPackage

#### and StreamPackage access to CSS.

Before we proceed, make sure you understand the following terms:

LVB CDN: StreamPackage allows you to quickly distribute streams in a channel via the LVB CDN.

CDN domain/CDN playback domain: A playback domain in the LVB CDN, which can be used to distribute live streams.

1. Activate CSS

Before you configure a CDN distribution, make sure you have activated CSS.

2. Grant StreamPackage access to CSS

In the StreamPackage console, go to the details page of the channel for which you want to configure a CDN distribution, select the **CDN** tab, and click **Authorization**.

#### Note

After the authorization, you will be able to configure a CSS playback domain for a StreamPackage channel.

Infomation	Input	Endpoints	CDN				
<b>CDN Setting</b> CDN distributio configure the C	(StreamPacka n service has DN service.	age supports quick not be enabled nor	integration wi	h CSS CDN to distril o use it, please click	bute live video st	reams.) " to make mutual	authorization b
Authorizatio	on						

Click **Click here**. To distribute streams via the LVB CDN, you need to allow StreamPackage to access certain resources. This is achieved via a service role. Click **Authorize Now** to go to the **Role Management** page, and click **Grant** to grant StreamPackage the permission to use related APIs.

> 2 Authorize CSS CDN to Use StreamP
e mutual authorization between StreamPackage and CSS CDN.
<b>CSS CDN</b> , thereby allowing StreamPackage to configure CDN services
Next
e m C <b>S</b> S

Role Manag	gement
Service Authoriz	ation
After you agree to g	rant permissions to StreamPackage, a preset role will be created and relevant permissions will be granted to StreamPackage
Role Name	MDP_QCSRole
Role Type	Service Role
Description	Current role is a StreamPackage service role, which will access your other cloud service resources within the permissions of the associated policies.
Authorized Policies	Preset policy QcloudAccessForMDPRoleInLVBCDNDistribution
Grant Ca	ancel

You will be directed back to the StreamPackage console. Click Authorization completed.

Autho	prization	
1	Confirm authorization complete	×
If	Have you completed the authorization of service role for the current feature?	
St	Authorization completed Authorization not completed	
	Next	

Authoriz	ation
1 Au	thorize StreamPackage to Use CSS CDN > 2 Authorize CSS CDN to Use StreamPacka
lf you ne	eed to use CSS CDN for distribution, please make mutual authorization between StreamPackage and CSS CDN.
Step1: ( playbac	Click here to authorize StreamPackage to use CSS CDN , thereby allowing StreamPackage to configure CDN service f k domain name.
0	You have authorized StreamPackage to use CSS CDN. StreamPackage is allowed to configure CDN service for playbac domain name now.
	Next

#### Click Next.

3. Grant CSS access to StreamPackage

Click **Click here** to go to the CDN console and allow the LVB CDN to use StreamPackage. After the authorization, you will see that the authorization status for StreamPackage has become **Activated** in the CSS console.



Authori	zation
Stream	nPackage
Streaml and the	Package provides professional, stable, and secure video packaging and delivery services. After the authorization, you can bind StreamPackage channels with play n use such channels as the origin servers for live streaming distribution and playback.
Activate	ed and a set of the se

Return to the StreamPackage console and click Completed.

Authorization		
Authorize		×
If you need to u	Confirm authorization Complete	
Step2: Click her	Have you Completed authorization of service role for the current feature?	
name to a Strea	Completed Cancel	
	Authonization completed	

Click Authorization Completed. You have now granted the LVB CDN access to StreamPackage and StreamPackage access to the LVB CDN (which means you can now configure a CDN playback domain for a StreamPackage channel and the LVB CDN can pull streams from a StreamPackage channel).

uthoriz	ation		
Au	thorize StreamPackage to Use CSS CDN	> 2	Authorize CSS CDN to Use Strea
lf you ne	eed to use CSS CDN for distribution, please make m	utual authorizatio	on between StreamPackage and CSS CDN
Step2: ( name to	Click here to go to CDN console and authorize CS o a StreamPackage channel (as the origin server). You	<b>S cdn to use Str</b> I need activate C	<b>eamPackage.</b> Then you can bind the playl SS service first if you haven't done so.
$\odot$	You have authorized CSS CDN to use StreamPacka	age. Now you car	n use CDN to distribute contents of Strear
	Aut	horization Comp	leted

4. Configure a CDN playback domain

After completing the authorization, under the **CDN** tab, click **Edit Configuration** to configure a CDN distribution.

Infomation	Input	Endpoints	CDN
CDN Setting The CDN distribu	(StreamPacka ution is not cu	ge supports quick i urrently enabled. To	ntegration with CSS CDN to distribute live video streams.) enable it, please click <b>"Edit Configuration"</b> .
Edit Configu	ration		

Enter the domain you want to use for CDN playback and click Confirm.

Content deliv	ery Netwo	ork(CDN) Setti	ng	×
Domain Name			$\odot$	
		Confirm	Cannel	

Infomation	Input	Endpoints	CDN		
CDN Setting	(StreamPac	kage supports quick	integration with CSS CDN to distribut	te live video streams.)	
Playback Doma	ain Name	www.baidurt23.com	n.	cname 🛈	() www.baidu123.com.tilvecdm.com
Acceleration Re	egion	Outside Mainland	China and Hong Kong/	Status	⊘ Enabled
Go to the C	CSS CDN Con	sole to Perform Mor	e Actions		

#### Note

After a new playback domain is added, the system will assign it a CNAME which ends with

.liveplay.myqcloud.com . To make the CNAME accessible, you need to add a CNAME record for the domain at your DNS provider. For detailed directions, see Configuring CNAME for Domain Name.

The default acceleration region for a CDN playback domain configured in the StreamPackage console is outside the Chinese mainland. If you need to distribute live streams inside the Chinese mainland, according to relevant laws and regulations, ICP filing is required for your domain. You can click **Go to the CSS CDN Console to Perform More Actions**.

#### Playing streams via the configured playback domain

To achieve playback via the configured playback domain, after you associate a StreamPackage channel with a CDN playback domain, replace the domain in the channel's endpoint URL with the CDN playback domain. For example:

Suppose the endpoint URL of your channel is:

```
http://123456789.ap-
```

seoul.streampackage.srclivepull.myqcloud.com/v1/017697a3513109df73abda3c4b26/017697a



#### 918bf09dfabc033b04d43/main.m3u8

Then your CDN playback address is:

http://CDN playback domain

name/v1/017697a3513109df73abda3c4b26/017697a918bf09dfabc033b04d43/main.m3u8

After the configuration is completed, please contact us for configuration optimization to ensure a better experience for you.

#### Note

Using the LVB CDN for distribution will incur playback traffic fees. For details, see Billing of LVB.

#### 4. Edit and delete a channel

You can manage created channels on the **Channel Management** page. Click **Info** in the **Operation** column to view channel details. Click **Edit** to edit a channel, and click **Delete** to delete a channel. Note that you cannot delete a channel bound with endpoints. Delete the endpoints first before deleting a channel.

Create Channel	Delete			
Name \$	1	nput Protocol 🔻	ID	Input URL 🛈
test	ł	HLS	6093C9FDC2AB1CA194AA 🗖	http://1257039118.a http://1257039118.a